CENTIMETERS



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A SELECTIVE MICROFILM EDITION PART V . (1911–1919)

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Thomas A. Edison Papers

at
Rutgers, The State University of New Jersey
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The original documents in this edition are from the archives at the Edison National Historic Site at West Orange, New Jersey.

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EDISON GENERAL FILE SERIES

1916

Edison General File Series 1916

E-16-01	Advertising
E-16-02	Advice
E-16-03	Articles
E-16-04	Autograph and Photograph Requests
E-16-05	Automobile
E-16-06	Aviation [not selected]
E-16-07	Bates Numbering Machine [not selected]
E-16-08	Battery, Storage - General
E-16-09	Battery, Storage - Edison Storage Battery Company
E-16-10	Birthday Greetings
E-16-11	Book and Journal Orders
E-16-12	Business Propositions [not selected]
E-16-13	Cement
E-16-14	Cement House
E-16-15	Charities and Loans
E-16-16	Chemicals
E-16-17	Christmas and New Year Greetings [not selected]
E-16-18	Cigarettes [not selected]
E-16-19	Clubs and Societies
E-16-20	Condensite Company of America
E-16-21	Deafness
E-16-22	E-2 Explosion
E-16-23	Ediphone
E-16-24	Edison, T. A.
E-16-25	Edison Band
E-16-26	Edison Chemical Works
E-16-27	Edison Crushing Roll Company [not selected]
E-16-28	Edison Manufacturing Company [not selected]
E-16-29	Edison Portland Cement Company

```
Edison Star [not selected]
E-16-31
E-16-32
          Education
E-16-33
          Electric Light
E-16-34
          Electric Pen [not selected]
E-16-35
          Employment
          Equipment and Supplies
E-16-36
          Exhibitions
F-16-37
E-16-38
          Family
E-16-39
          Fan Mail [not selected]
          Financial Inot selected]
F-16-40
E-16-41
          Ford, Henry
          Foreign-Language Documents (Untranslated) [not selected]
E-16-42
E-16-43
          Fort Myers
F-16-44
          Glenmont
          Health and Diet
E-16-45
          Honors and Awards
F-16-46
E-16-47
          Insurance
F-16-48
          Invitations
E-16-49
          Lectures [not selected]
E-16-50
          Legal - General
E-16-51
           Legal - Legal Department
           Legal - Litigation
F-16-52
E-16-53
           Milan, Ohio [not selected]
           Miner's Safety Lamp [not selected]
E-16-54
E-16-55
           Mining - General
           Mining - Metals and Other Minerals
F-16-56
F-16-57
           Mining - Ore Milling
           Motion Pictures
E-16-58
E-16-59
           Name Use
           Naval Consulting Board
E-16-60
           North Jersey Paint Company
F-16-61
E-16-62
           Patents
E-16-63
           Personal
E-16-64
           Phonograph - General
```

Phonograph - Edison Phonograph Works [not selected]

E-16-65

Pohatcong Railroad Company [not selected] E-16-66 F-16-67 Politics Port Huron E-16-68 Proudfoot's Commercial Agency E-16-69 E-16-70 Radio [not selected] E-16-71 Real Estate Religion and Spiritualism E-16-72 E-16-73 Stock and Bond Offerings [not selected] E-16-74 Submarines [not selected] Telescribe [not selected] E-16-75 Thomas A. Edison, Inc. - General E-16-76 Thomas A. Edison, Inc. - Fire [not selected] E-16-77 E-16-78 Visitors Warren County Warehouse Company [not selected] E-16-79 West Orange Laboratory E-16-80 World War I E-16-81

E-16-82

X-Rays

Edison General File Series 1916. Advertising (E-16-01)

This folder consists primarily of correspondence from advertising managers and publishers. Included are Items concerning advertising strategies, legislative matters, trademarks, Edison's opinions of specific magazines, and appointments with the inventor. Among the documents for 1916 is a clipping from Lesife's Illustrated Weekly Newspaper announcing the celebration of Edison Week and describing a series of "tone tests," which featured recording artists alternating their live performance on a darkened stace with disc recordings.

Approximately 50 percent of the documents, including all letters bearing substantive marginalia by Edison, have been selected. The unselected material consists primarily of unsolicited correspondence that received a perfunctory response or no reply from Edison.

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Owners or Fundamental Linear on New York

ECONOMIC ENGINEERS

BABSON'S STATISTICAL ORGANIZATION
MOORFORATED
ROGER W. BABSON, PRES.

ADDRESS REPLY TO WELLESLEY HILLS, MASS.
COMPILINO OFFICES (SUSUANE OF SDETON)

April 1, 1916.

Thos. A. Edison's Library, Orange, N. J.

Gentlemen:

We wish to ascertain what magazines are most read by the more thoughtful business officials of the country, and feel that such data would be immensely valuable.

Experimental advertising is most expensive and we wish to help our clients, as well as ourselves, to reduce losses.

The Babson list of clients is of a very high grade. We believe that it would be a great help to many of our clients if they could know the class of magazine publications read most generally by our subscribers.

Therefore it will be very much appreciated if every one receiving this letter would check off on the enclosed post card the names of those magazines that they read most thoughtfully and receive regularly.

Just as soon as we obtain this information the results will be compiled. Those who wish to receive the final tabulation will please so note on the post card.

Thanking you again for the spirit of co-operation which we always receive, we remain,

Very truly yours,

Babson's Statistical Organization.

PFBryant BMG

ONE HVNDRED TEN

WEST FORTIETH STREET NEW YORK

June 19th 1916.

tising.

r. Thomas A. Edison, Orange, H. J.

My Dear Mr. Edison:

You will remomber a more or less interesting conference at your home and a subsequent one in your office on the subject of adver-

I have just stumbled across a proposition which will cost you nothing but which, if successful, will not you considerable money in your phonograph business.

This, if taken advantage of, should be handled at

I have also two other propositions which I am confident will interest you. These propositions are outside the field of magazine advertising of which we formerly spoke. However, I am certain all are based on fundamentals in the phonograph business. I wish to telk these over with you personally.

Although you are extremely busy at this time. I venture to guarantee in advance that the five or ten minutes required for an interview will be profitably spent by you.

I will come over any hour of the twenty-four which you designate through your personal Secretary who has my telephone number and address.

With a keen appreciation of the courtesies extended by you to me in our last two interviews, I am.

Respectfully yours,

A.C.Barrell

YANT

TELEPHONE



I should like nothing better than to work out some of these thoughts with you.

I have two advertisements in the rough, based on our recent conversation.

There is no doubt in my mind, but that you have built the finest phonograph in the world.

If your advertising were as good as your quality, your chief problem would be the problem of producing goods enough to supply the demand.

"o essist me in working up a certain advertisement, will you be good enough to write me in a few sentences, your personal opinion as to why Dismond Disc Phonographs are increasingly popular?

I think I know what you will say but I prefer to know it rather than think it.

Your enguer will be treated confidentially and the resulting Ad. will be shown only to you.

with a keen appreciation of your courtesy in connection with my insistent efforts to serve you. I remain,

Respectfully yours,

EPHONE

A.C.Barrell



JAMES ALBERT WALES

Wales Advertising Co. 125 East 23d Street, New York

REMOVED TO 110 WEST -10TH STREET

Personal
MR. THOMAS A. EDISON
A. EDISON

Orange N. J.

1

June 27 1 9 1 6

Doar Mr. Edison;

Enclosed is a reprist of a recent article in Printers' Ink, in which I was very glad to have an opportunity of fasturing the notable work you have been dedug in the development of American industries to replace many products formerly imported. This reference to your work was perhape most ther accurate nor complete, but it was propably as close to the mark as some others that have been published!

There was evidently no way to mention the Edison Storage Battery, which I regretted, as you know I am an enthusiast regarding the advertising of the Battery.

With kindsst regards,

Very sincsrely yours

La California

[ATTACHMENT/ENCLOSURE]

REPRINTED FROM Printers' Ink OF MAY 25, 1916

Start Now to Offset War's End

By James Albert Wales Advertising Agent Makes an Anal-ysis of Present Prosperity and Finds Some Elements That War-rant Optimism — Bellevet Adve-tising Will Be Strong Weapon if Berun Nov.

By James Albert Wales

By James Albert Wales

M'NNY business men are saying that our present compartive prosperity is artificial
and temporary—that it must diminish at the end of the European war. This feeling seems to
be especially prevalent among
advertising men. Income one or one
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after the war, at home as well as abroad, where as a whole had been expecting better times, war or no war. Prosperity was overdue. As better felling of under the compositions, and the public—was brisgariant and the public public

finished product was proving the economy of scrapping out-of-date equipment and supplies and replacing them with modern goods, thereby simulating manufacturing and effecting economic gains for user and consumer at the same time—a most desirable re-

for our and consumer all the control of the control

supplies to a py la n' L' former supplies to a py la n' L' former supplies and the supplies are supplies and the supplies and the supplies and the supplies are supplies are supplies are supplies and the supplies are supplies are supplies and the supplies are supplin

me shall their cendity estimatable our "advanced positions," for the war is the more increasive from the war is the property of the war is the war is

PRINTERS' INK

RS INC.

The state of the state

W. A. Somerville With Republic Motor Co.

DIBBIE MOTO CO.

W. A. Samerville, formerly advortising a samerville, formerly advortising a samerville, formerly advortising a samerville, samer of the foring a samerville, one intro of the Strucborg Bloise Dovices Co., of Chicago, has
been appointed neiverbinding messager of
the Reynalio Motor Truck Company, at
Airca, Mich.

Transferred from Chicago to New York

Horold G. Schryver has been trans-ferred from the Chlospo to the New York office of Cone, Lorence & Weed-man, publishers' representatives. Ho has been a solicitor for the Chicago

Thomas A. Fdicon.

Zannoke, Ba.,

Aug 4th. 1916

my dear Pr. Edison.

Longer ago than I care to remember I worked with you from chattanooga when you were in Memphis an an operator I now want to ask from you or your secretary a little information. Who has the placing of the advertising for the rdinon company.

I am railing you under a paparate cover a copy of this newspaper which though scarcely a year old has a circulation of more than 60,000 among railroad men of all departments, industrial organizations and the coal operations of the southwest.

I believe it to be a desirable redium with its low rates and would appreciate if you would put se in touch with the amency handling your advertising

murust 18th. 1916.

Mr. M. O. Larscomb, Banaging Lditor, Eno mailroador, Roanoke, Va.

Doar Bir:

Your favor of the 4th instant addressod to Mr. Mélion has been received. You state therein thirt you are conting under coparate cover a copy of your paper. So for this meper has not yot been received by us. It has probably been look in the mails.

Yours very truly.
Edison Laboratory.

Minited States Senate

Day I am delegated that

he interests to give his support

to the the many technical

on account of the continuing the constitution

Dear Friend:

On account of your expressed interest in the

subject I am enclosing herewith copy of a letter which I have just sont to Lr. Charles Helzhauer, of Hewark, New Jersey; stating my intention to support the Stephens-Ashurst Bill-"to protect the public against dishonest advertising and false protonses in marchandising".

Sincoroly yours,

ISM/S.

JAMES E. MARTINE,
COMMEMAN,
E. JOSEPH AROMOFF,
PRIVATE SCRETARY,
JOSEPH ECHIAVONE,
ASSISTANT.

United States Senate

WASHINGTON, D. C.

September 7th, 1916.

Mr. Charlee Holzhauer, Broad & Market Ste., Newark, N. J.

Dear Mr. Holzhauer:-

I have had no opportunity until recently to give coneideration to the questions involved in the legislation which has been pending in this Congress known as the Stephene-Ashurst Honest Adventising Bill.

I am constantly receiving inquiries from all parts of the State ac to my attitude towards this ememer from men who I know, like yourself, are doing business successfully along legitimate lines. It may, therefore, please you to learn that after full consideration I believe it to be a port when it comes before the Sanate shall be glad to support when it comes before the Sanate.

As I understand the Bill, it is intended to prevent out-throat competition which leads to monopoly and the elimination of the independent retailer. In that respect it eeems to me it will further properly supplement the Sherman Anti-Truet law.

I am frank to say that I have been considerably influenced in my decision regarding this legicalation by the argument which Mr. Justice Brandels made in its behalf before the
committee of the last Congress. In fact, I do not see how any
fair-ainded man who realizes the abuses prevalent in the distribution of merchandise today can, after reading Justice Brandels
which was a subject to the state of the state opponents. It seems to me a measure
which is directly in the public interest and which should be
supported by all who believe in honest trading.

Sincerely yours.

lames & Marting

The New York Evening Post

rasewell Eve Poet has higher choices Charles of any leve, person De expectante Orange , M. J. Dear Sir : The enclosed severtice out which ar earel in Leelie's Teelly has made quite on impression upon me from an advertising standardat.

The tris is a very injectant week at the Electrical Show in the Grand Central Prince, I wish to effer a suggestion that you slick us to run this advertigatest in The New York Eventual Control of the Co ing Post one day before the closing date of this wow - Sotober Slet.

It is needless for me to go into any detail with you reparting The New York Evening Post You are well sware of its policy and the class of advertising it parries.

We have been unsuscessful in the past in Amalin the most measurement in the past in deal-in, with your advertising armore recording running copy of this character in The New York Evening Post, and therefore we are colleged to call the anter to your personal attention.

For the past year the Victor Inlking Machine Company those has adjusted the distinction of being presented it out confers. Tith all the good distinction of and to said of the Edward Piking Foshine, I think you will appear it, so that in justice to rounself and your problem that the column of The Sec Took Machine, Peet should be used for your advertise. ing.

I trust you will favor us with an order for the insertion of the enclosed copy.

Very truly yours,

haa-j

In the United States alone, the industries founded by Thomas A. Edison give employment to six hundred thousand human beings. Edison Week is observed every year by a group of these industries in 16 th to 21st

October



The New Edison

F the various arts and sciences, Mr. Edison takes the greatest interest in the recording and reproduction of sound-Unquestionably, of all his numerous inventions, the New Edison, the instrument of Music's Re-Creation, is his favorite. It marks the goal of his ambition to record and reproduce all forms of music with such utter perfection that the reproduction can not be distinguished from the original music.

Mr. Edison has perfected this new instrument for the reproduction of music, and recently submitted it to comparison with the voices of such great artists as Marie Rappold, Anna Case and Arthur Middleton of the Metropolitan Opera Company, Thomas Chalmers of the Boston Opera Company, Alice Verlet of the Paris Opera, Christine Miller, Elizabeth Spencer and Marie Kniser, the great concert singers.

Remember, these great artists stood beside the New Edison in Carnegie Hall, New York, Symphony Hall, Boston, the Astor . Gallery, and other shrines of music. They sang in direct comparison with Edison's reproduction of their voices. More than 200,000 music lovers attended these demonstrations and were unable to distinguish the original from the reproduction. The music critics of more than two hundred of America's leading newspapers admitted that they were unable to detect the slightest difference, To differentiate this new instrument from ordinary talking machines, the critics coined a new expression - Music's Re-Creation.

These astounding tests have proved conclusively to music critics everywhere that the New Edison is incomparably superior to any and all other devices for the reproduction of sound. We have the verdict of the American press and American music critics. We now want the verdict of the American people.

Bringing it home to you—\$1,000 in Prizes

And 10 cents a word for your opinion, as explained below

N every locality there is a merchant licensed by Mr. Edison to demonstrate and sell the New Edison. These merchants have set aside a limited number of speciality tested instruments which will be sent on absolutely free trial to the homes of respentible people during EdisonWeek. Bring Music's Re-Creation into your home. Keep the in-strument for three deys during Edison Week. Let your femily form its opinion. Then put that opinion into words. music critics heve told in their language why the New Edison is infinitely superior, from their standpoint, to eny and all telking mechines. We want you to tell us in your language why the New Edison is more valuabla and desirable in the American home than any talking muchine. We went you to tell us why it is superior as an entertain and es a meens of developing real cuisura and musical appreciation on the part of your family. We already have a booklet that contains the opinions of leeding American music critics. This booklet tells the technical and artistic side. We went enother booklet that will tall the human side, and this is whet we are willing to pay for your opinion

\$500 for the Best Opinion \$200 for the Second Brat Opinion \$100 for the Third Best Opinion Ten eents per word for opinions which do not prizes, but which we decide are worthy of publi tien. No opinion to bamoen than 200 words in lan

The Contest Cioses October 28, 1916

The Conditions are perfectly simple ATTO CONTINUENTS ATTO PETERSONY SAMPLES

TO SO AN BESIDEN observed that New Market September of the days Irrae Irial of that New Mill give you are considered to the continuent of the continuent of the continuent placed by the continuent placed to the condition. Let us make plain that you assume no obligation to purchase the instrument placed to the continuent placed to the continuent of the continuent placed to the continuent of the continuent placed to the continuen

your home.

Professional writers and phonograph trade ara barred.

Professional writers and phonograph trade are barred.

You dun't have to be a trained writer to win a price.

Ideas are what count. You can make grammalcal errors

and integral service and it will not count against you. The New Eddon sink deep feelings in music bevers' avoid. We want your feelings expressed freely in your own words. Durn't well, art quiet of the property of the least on the property of the theory of the property of the state of the property of the property of the property of the SILP print SIAD Section 325 Table 1991.

The Contest Closes October 28, 1916

The deeler will explain everything to you. Go to his store this very day. Owners of the New Edison may compete. Go to your dealer end get an entry blank.

Let us help you win a Prize Write to us at once end we shell gladty send you these helps: The brochures "Music's Re-Greation", "The Music Mester's Conversion" and "What The Critics Thin!

THOMAS A. EDISON, INC. Department 2417

[ATTACHMENT/ENCLOSURE]

ESTIE S Illustrated Weekly Newspaper Established in 1855





Mr. Edison:

Referring to the attached letter from the Advertising Manager of the New York Evening Post, there is no question that the Post has the highest clase circulation of any paper in New York City, and if I were in George Babeon'e place I should take an occasional advertisement in it. I presume that his reason for not doing so is because the rate is popularly supposed to be out of proportion to the eize of the circulation.

I don't think that we, as a Company, ehould take any advertising in the New York Evening Post or any other newspaper at the present time. The minute we advertise in one newspaper all the other newspapers, not alone in New York City but the country at large, will be after us - also our dealers in

At the present time we are getting more adverticing for the money spent than I ever saw any other manufacturer get. Our dealers are convinced that we are not going to spend any money in newspapers at present, and most of them are reconciled to that fact. Accordingly they are going ahead and epending their own money. Even through the summer months when meet dealers quit advertising, there were several hundred who kept plugging away using the interlocking copy which we furnished them. I believe that from now until next spring at least one half of our dealers will advertise in the newspapers coneistently. In my opinion we cannot afford to disturb the present situation by doing any newspaper advertising over our own name.

With special reference to the New York Evening Post, we can recommend to George Babson that he take some space in it, or we might go into an arrangement with Charles Edicon to pay part or all of the cost of some ads in the New York Evening Post to be run over his name.

Mecolognaft Wante Part many that we are doing on magazine advant at pleasant newspaper active wellows and be alert seen newspaper active wellows and the Edward Shop Sprance public Edward Shop Sprance

South Wash. 11/20/10.

Mr Thomas A Edison Orange Hew Jersey.

Dear siri as sould, you under asporate cover an enlarged, hand colored framed are as a panna Peaffe Exposition at San Francisco, but of the part of the country of the coun

case to so in a dress that you were looking does now trade mark for the products of the Edison factories, the looking dealers which would be products of the Edison factories, or that the name Edison represents, that to the brightness will be supported by the theoriest will be product to the brightness which Electrical world) you had begun to fool that to the brightness was too plain, you wanted to brighten it up, so that the purchasing public would take notice, not because the light of Edison inventive contus had lost any of its brightness only you felt that it meeded lighting up, on when I awoke and the dream came to any active consect the small photo I am emclosing hereafth came to my mind and I decided to onlar go, \$\$ color, and frame it, and send it to you so that it may adorn the walls

of your laboratory or your home as you see fit.
The email phote enclosed herewith you may use to secure the reproducts ion, from which plateyou can occure the electrotypes, for the coloured integrated design and future trademark for all the Editon product execution in the enclosing and the enclosing and the enclosing and the enclosing and administration of the enclosing and administration of the enclosing and the enclosing and the enclosing and the enclosing and the beauty back to memory, thousands of people have talking anchines Editon lights, and other conveniences of Editon memificature which bring to sensory the days when there was not these things, days when the Editon lights, and the encounter of the enclosing the enclosure that the enclosing the enclosing

If my dreem somes true and you find this design acceptable and I feel ourse that you will, as a componention for the set of it for you may send so one of these Edison Dissond point reproduces cabinet typedison Talking Machines, I have had a desire to cum one of these machines for a Talking Machines, I have had a desire to cum one of these machines for a long time, and a design like this ought to be worth this much to snyone and if you feel that it is of any greater value to you as an advertising medium, deraft will find me thro the Union Savings and Trut Oo,my bank

here in Seattle.

This will reach you in time to that you can place the new deelgn on
the Ohrietmae records and give the people an Exposition Editon light
surprise, so thanking you to accept the enlarged photo with my compliments,

Mr. Edinor.

Mr. E

[ATTACHMENT/ENCLOSURE (PHOTOCOPY)]



December 4, 1916.

Mr. Harry E. Hanson, 601 Yoslor bay, Loattle, Wash.

Doar Sir:-

Your favor of the 20th ultim to Mr. Edison was received and brought before him for his consideration.

He requests me to any that while he greatly approach to your courtony in offering him the use of your petterness an approach to the result of the court of the result of t

hr. Edison wishes me to extend his thank to you for your courtosy in sonding him the enlarged color picture, which will be hung in the Laboratory.

Yours very truly,

assistant to Er. adison.

Edison General File Series 1916. Advice (E-16-02)

This folder contains correspondence from inventors and others asking for Edwards advice on technical matters or his assistance in improving or promoting inventions. Included is a draft response in Edison's hand concerning the use of respirators by workers in his factories. Also included are references to the Naval Consulting Board and letters about war-related inventions similar to the unsolicited correspondence in the Naval Consulting Board and Related Wartime Research Papers, Spedial Collections Series. The correspondents include Charles E. Adams, director of the Hector Observatory in New Zealand.

Less than 5 percent of the documents, including all items bearing substantive marginalia by Edison, have been selected.

As you 678 of The board, appointed by government for Ita betterment of I'm navy I have a troposition to spepmil To you That it it is a success will to Juite a factor in The General Ilan of proparduces. It is an area macti does not use beaut or far to treep it such ended. I he motor is an light Cyl. operand Type of 180 top. A.l. am. vating and will develop 218 h.d. and wie wigh about 275 when furistied DI is of varable speed and can to full almost slive our an offect and at any altitude

and can It lurned on ils fun avis I Thereby The Apred Care to Faire from fin miles der terus To one trundred mi. This may look in reasonable to you but is it any more so Than The Telaptione, Vinices, or The Phonograph I can build the mactime for 600,00 as I can do all the world my out fell. Can not buy I'm lathe and motor To our it. my prosposition to with the four to The Extent of financing The dola and if it works and can be pat. To give you a half into in the pate Lust Think back to the Time when you was bying to perfect your own sideas and Jon care immagine of Demethings of whiat I would do if it Trad The money. a space four ft. square and line to

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The same of the sa

MC-MAN OIL COMPANY

TULSA OKLAHOMA.

HEALDTON POOL

Wirt, Oklahoma. 1/19/1916.

Mr. Thomas A. Edison, There is a Concern in Wyork

Dear Sir:-

who have a process that is being adapted by many darge make

Our Company to a troducer or was a flexing to a troducer or wind of l, and we store large quantities of phis of the troducer of the control o

These tanks hold 55,000 barrels of the crude oil, hence you can see the immense loss, either to ourselves, or the insurance Co. We are now carrying this risk and have no insurance on most of the oil.

Could you devise some means whereby this loss could be lessened; if so you would have done a great thing for the oil industry of the world?

If you care to go into the matter further, I shall be glad to give you any data that I can procure from the field.

Thanking you for any attention given this matter,

Very truly,

By Stack Supt. Healdon.

(6783)

Amsterdam. 20 Jeenani 1916. cehnich. Bureau Edison U. S. Amerika: Televal. Gestrengen neer Gelevale Heer! -6 Deighens een verslag in een een Hollandsche dag bladen, las ih; aladat WED heefs subgroundan hat French. Jan its; ondergeteckende ruin 7: laven hen werkraam gineest; am de Chemische Farbenfabricken van Friedrich Briger "in Co'd te Leverhusen: Deutschland. " Speciast" belast met het maken van Roh. Thenol 'ot Chein Phenol, in momented in Hast ben Roh. Phenol is kunnen Labriccoun + 6000 hike You is onign viendelijk verrek eventu eel mijne dionsten van te bieden. Indien het Wed yenoly somehout, 300 ben ih berein, se Schehoteckeningen van het be. mornigae, approurant "ter Vener beschikking to Wellen This gal mayeligh Whol years his works, works, men be melsen, wholat it, in start him per dag to leveren 3300 Liter Rhein Phenol nit

wit 6000 Riter Rois " hend; wat by oncer vinding black near voidrende te 3 ym. . not brountgehalte wan het gefabrucerae Phin Friend, bracht it "door mign faren langer ondervinding lot 40, 6% met, -"renkelooze" withoust, het welk het negatie we resultant may sile verwaentingen over test, en may nimend for world high kun nen namaken; ordanted het bijkomende; That 3al my when sunginaam kyn van What he womenen, of It hereid is virde met my over gonormale in contact he willen trider, in sin besied voor alle noodige grage vent mine buschenhomst be wilcom, des noods of " Twe enthoodiging" naar Amerika be komen. . Faarne Kie i'v per omgande van Wid can gunsting untrovard beginned, in his door seine de ser le rign of C. E. Exers! v. d. Loops trant Nº 3. Ansterdam.

The writer, a Hollander, not knowing to English language, how Gen employed at The Oremical Dye - Works Then Bayer + Co at Lovenkuson, Germany , where he nad wharge of converting Raw - Thenot into Pure thenot 6000 litero (ca 1500 yallons) were made per day If you wish , he will put the drawings of the necessary apparatures at your disposal You wight like to how, That he is able to produce on 850 y mines of proce Phenol from 1500 gast of crude Thence, which seems It be very satisfactory. Claims, that by his experience of many years, he succeeded in obtaining a met percentaje of 40,6. Would like to hear from you if you are willing to treat with him. Would come to America Smiterdam

no ans

I am not interested in Suppose you write to the Dupont Pawder Dear Sin writing this letter Lear V Frembling, Renowing your Itation in life Is high in the Eyes of the world y ld So humble & Poor that I am Learful of a reply but I will Sce · Mu Edison I him I have discovered a material that is far Superion to make gun cotton or will Zase the hluce I amcotton and it is plentifule Teasily gotten the Liber is very fine I soft but you can throw a lighted math In it out want Burn but. Just take a ball of it the Sime a walnut saturate with coal oil Tit will turn like howder for a sisteen minutes It is a gleat absorbant will take anew limbed I can Send nor Some with seeds in I some

Send the stuff just as It grows afe note the filers that surprinds them to the the the gre about for suches long very strong about for ten threads the curred is any much fixe corre light only redy compact, I want Nov this Ster Gramline each Tall Sparts for me as you are in a parton in it we will Dire Tagnadly dont thrush this some cranks writing but I am in carnest & must hat this find to probled knowing not to heat. will that me fact Odwill Just as soon as you answer this send Sample in pargel, Post I will Send Stamp Expecting a siply by extern mail and I think we will tooth be greatly tunifited Linancially this material was used in Bible times for a purpus, this is where I got the delease

LAW OFFICES DUDLEY AND GRAY

Hew Jorsey.

My dear Mr. Edison:-

Western How York.

You will recall me as

green-horn fisherman who caught the first tarpon at Fort Myers some years ago, when, through the kind auggestions of yoursolf Hrs. Dudley and I were pursuaded to go to Port Hyors for a short Winter vacation. $M^{\alpha}(\hat{m}_{G})_{rec}$ Ers. Dudley and I both recall with much pleasure the Coping decology onjoyable and interesting days spent at Fort Myers made so to a large degree by the kindness of Mrs. Ediasperts of hun are son and yourself.

As you will resollect I was one of / vel. the directors of the Hiagara Falla Power Company at thought of the time you gave us valuable assistance in connoction dieder with the electrical development here and I am still " (c.) largely interested in power and reilroad matters in January receif

Section, the

multiname - No

Sugar thisis.

The metter of additional power day, founding wellwell-power than received considerable attention of late. The founding wellwell-power than received considerable attention of late. The founding is in the best Bank , ac. , first, to a changed sentiment on accord and owing primerily the part of the public and, second, to the fact that the Canadian Government contemplates another large

development on the Cenadian side. While I knew much of the following information is within your personal knewledge, I take the liberty of calling your attention to the following:

The waters flowing over the galls are capable of developing in excess of 5,000,000 horsepower; approximately 500,000 horsepower is now being developed, which uses about one-tenth of the awileble water. As an economical proposition, and having in mind the ultimate benefit to mankind, there can be no argument, of course, in favor of permitting of much a gigentic water of energy which sould be loveted to industrial development. In any event, the taking of an additional quentity of water sufficient for the development of 500,000 electrical horsepower would make no appreciable difference in the scenic features of the Pells of Hingara, conditioned of course on the proper distribution of the flow of water being made above the Palls.

The present treaty between the United States and Great Britein relating to boundary waters, permits of the taking of 20,000 cubic feet from the American side, although but 15,600 cubic feet are now being taken. This treaty was made on the 11th day of January, 1909 for five years, and continues until terminated by twelve menths notice by either of the contracting parties.

We must recognize a sentiment throughout the United States against the doing of anything which would work a destruction of the seemic features of the Fells.

My plan, contemplated, briofly, the securing of the right to take sufficient water from the Americen side to develop on additional 500,000 electrical horsepowor, taking the water from the Niegara River in the vicinity of Lo Salle, which is approximately six miles up the River from the Fells, and conveying it to the Niagora Escarpement near Tewiston, a distance of about seven miles, where a fall is obtained of approximately 300 feet, and thence discharging the water into the lower Niegara River, so-oslied, below the Escarpment, an additional distance of a little over a mile, and in so doing construct a ship canal, of sufficient depth and width to handle any vessel which may travorse the Great Lakes, utilizing the lower Hisgara River as an outlet. We are now dependent upon the Welland Canal, which extends from Port Colburno on Lake Erie to Port Belhousio on Lake Ontario, across the whole upper poninsula of Canada, a very great distance, with numorous locks, the Welland Canel being entirely on foroign soil. We would have a ship somel but whent cight miles in length, and the looks would be so arranged that the looking sould be done in maccession. The time in passing from Lake Eric to Lake Ontario would be about oncourth of that now somewhat by the Welland Canal route. The proposed sanal would be entirely in our own sountry, the importance of which to our somewore needs no argument.

This cenel I would propose to build and give to the government, in consideration of their greating us sufficient water to develop 500,000 horsepower. The govornment, of course, subsequently to maintein and operate the canel.

In addition thereto, end perheps the most important to the government and to our people, is the fact that we would have electrical energy evaluable, in cases of war, for the manufacture of muntions sufficient to make us independent of minoral nitrates obtained from foreign sountries. Of sourse you resognize modern explosives are prestically all nitre compounds, and that the great supply of nitrates in the past have been obtained from Chili in the form of nitrate of sode. Cormeny resognized the importance of manufacturing nitrate from air by virtue of power development many years ago, and the work has so been completely carried out that

Gormany in now oblo, through her electrical power development to fix nitrogen economically sufficient to produce her own orplosives, and were this not the fact and sho were dependent on chili salt petre or nitrote of mode, the would have been out of the running long before this.

With this concesses power development perfected and available in the meanufacture of munitions,
it would take less than aix months to convert all of this
electrical energy into active openoies in the meanufacture of nitrates, and give to us nitrate supply
which would be mufficient to furnish us munitions of
wer to the full extent of the tremendous demands which
the next wer will force upon us. Parther, this losetion will be so far removed from the seaboard that it
would be easy to project it against all sorts of attooks.

Ey association with the clostricel power development in this locality has presented to me an opportunity to give this whole subject a rather broad study, and I have had the advantage of a great deal of technical knowledge of perhaps the best clostre chemical experts in our country, and, with the government's assistance and cooperation, without costing the government any money, they would be able to secure.

First:- A ship canal on our own territory which would greatly facilitate and increase our internal and intermetional commerce.

Socond:-dive our sountry in time of peace a tremendous industrial development which would be folt the world over, with an additional 500,000 electrical horsepower swalleble for menufacturing and transportation purposes. Portions of this power, until greeter demands exist therefor, sould be utilized in the menufacture of phosphates in the meking more valuable our lends in the South;

Third:- Electrical energy available in times of wer to afford a sure and sufficient supply of nitro compounds to contracture all of the munitions of war, without depending on foreign nitrates, or on sporadic and widely separated power plants, where difficulties of protection and transportation would have to be over-come.

In my study and dovelopment of this matter I have given full weight to opposing public sentiment, and I am satisfied that any American with a reasonable effection for his country was a desire for its advancement and protection, will not hositate, under the circumstances, to secrifice a little of his secthetic feelings for the great benefit and protection which would

accrue to the whole country.

Another thought which I have confidence will oppeal to you is the barge canal will soon be completed and it occurs to me the most precticable method of propulsion of canal boats is by storage battery, each boet being thus solf-contained, so far as relates to power permitting of the barges going directly through to Hew York.

The State possesses the right of way for a transmission line and mitable storages between albuny and Hew York sould be loosted for storage purposes. Of sourse, the ship sonal is not a mecossity to the power proposition but it is an important insident and perhaps a controlling one to the accomplishment of the general plan indicated.

I think it herdly nonessary to more than state here that the market for power will be sufficient to justify a satisfactory return on the monies invested.

While I would have considerable influence in the way of securing financial support to this proposition, I feel a great desire before seriously going ahead to have your approval and if the metter seems practicable ultimately to have your co-operation and porticipation in the result and would be glad to hear from you in due course.

#8.

With kindost personal regards, I am, Yours truly,

1

Fear Sirno of any chemich with a knowledge from furtilizio in Vario Pario Ereen Sulphi and line -

disappeiren - probabil mie but in much min returning to the l'action. a Kon Torchitetter não land to fight in & cam Earl he morning for fre is property were-Clauria to mare Eine Trike Freid it a in deal of more The Same sugares huruin nito dises from in the business fortam Chemist who had the right Different raction in cerciane Just Ease knowledge, as no the supportante The Company could new Hulpany mue control the Prince to be Eigned The Suddent rulput of lew factories

and of correct would able is as . or i can seria you a sample the Hiz of westernable white in view of the shortest broduct if you men. It wise If he treen, baint When Trees the me in month to this Lardino mito a Colores Bil seil fact for many Etom subelance. for it the four cause croschies in mil kum of some one o They have love facil mit namy apologini In the fuding aunu In brousling for again bohs, Este do what Pareta H. De Conci ma " nur Hochsletter nas

Mrs M. E. D. Brit-Sea Breen New Forte. (near Prelester) mchist 1916 -

Day Fremendor of tract the human abructiones but come (cocurey Mout the Upital Allegnice Inach 62 1916 Im Thomas Edward I wenter. From Sin, - Council secumber Cle Magne some Im years ago, articles appeared in the leading magazins - I Think it was the toomopolitan" or muye in which you advanced your molecular Thefory con cerning the human structure, and in one of The artisles the properties and functions of Electricity and magnetism were treated as inseparable forces. I remember one of your statements: "a current of Electricity laid in The ground will as - our establish a mag netic field of about - 1/2 mile around it to "Electricity and magnetism are inseparable forces" to.

would you be kind mongh to let me know, whether The theory stands.

Stadeville Company

The Kilgore Land Rower Company

Warren, Okla, March 9 1911 Jan January
Mr Thomas a. Eddisortfell him as?
Orange H. J. have no Experience
of always were fortimed to
you recommend as the best
white Oak, wood preserveatible for
uposed outside Floors, wood to
be breated in quantities intur
before or after the Planing Mill
work, your suggestions will
be appreciated by agent Friend
WEKilgon

7616



The Pector Obscriptory,

8443)

They wanaking less

Fildington Ato Zelanto.

Trape ferries of months of the formation of the state of t

Since I met you at the Lick Observatory in 1915, I have had

a number of conversations with my friend, Professor V. Weight the continuous and the possibility of white series which substitute the first than class for reflecting telephones; and ter, which has advised me to write to you to see if fused quartz in commercially obtainable in large disea, of suitable size for file mirrorly of reflectors.

If the fused quartz is obtainable I think it would be better than glass on account of its lower coefficient of thermal expansion.

And I have thought that if Invar could be used it would be ideal; but I do not know if a mirror of invar could be silvered or not.

You will, I hope excuse me for troubling you on this matter; for in New Zealand I am not able to get the information.

I spent a very pleasant & instructive year at Hount black I also visited Mount Wilson; but I was dirappointed in not being shie to go X East, when I looked Forward to calling to see you. I had a number of interesting & valuable conversations with Mr. Wilson, who was in charge of your exhibit at the Exposition.

Yours very truly,

. E. E. adams.

Director.

Mr. Thomas A. EDISON,

Himself.

EDISON STORAGE CATTERY CO., 1103 LAKESIDE AVENUE, ORANGE, N.J., U.S.A.

[ATTACHMENT/ENCLOSURE]

Mr. Edien:
Goto, Ribelia of the Camegia
Observatory at Mount lertson, lat. has
been trying to get a fund quark summer
The he has the backing by the
Camegia Institution he has not been
able to get any successing concert.
I the first granty fine material
and make it surpossible to polish
the surface time mean where it outs
them one of these bubbles.
A 40" morrow weigh 1000 founds
and a 10" mimor weighs 1000 founds
and a 10" mimor weighs 1000 founds
and a 10" mimor weighs 1000 founds
in auch large masses.
I it could be fused and heft

hot for a long period like glass the

ATTACHMENT/ENCLOSURE]

hubbles would probably rise and law the mass clear, I his will probably he done some day, and it will bring a very great advance in athonomical mirror efficiency as the tamportus warying is their greatest trouble more.

Try respectfull, the Binriddia

Day that galso have just completed a Hydrogen Indicator for the Wary Which is on test, I do not wand to change the fourth. Mr. Thomas of Edison you would have a Orange, Inf. Chemen + could get Dear Sir. The writer has evolved a toxiometer for the detection of Hydrogen. which will not only give a signal when the danger point is reached but also gives a clear direct reading which will show just what percentage of hydrogue is present. If this intresto you and you care to look into it with a view of purchasing if it measures up to your standard, would like to hear from your. yours truly Howard Inoton Hay

P. M. ISENSEE

REAL ESTATE AND LOANS

BOSSBURG, WASH. March 12 1916

in the Thomas Edison Erys Mydean Sir. I wrote you once before, about three years ago respecting the Starting of a large aidustry here on the Pacific North West Cexist, by searce a farge Notes power Scoutroles You were very Kund in replying to my letter; but the hard times have prevented the proper to further materialize there its prolimit Wary Tages. The prosent European or Zather north war, has brought about condition, however, most favorable forthe use of large water power in connection with the production of nitrates make from Line thorough powerful electric Currents, as you well know;

and Itherefore wish to bring

to your eminent most Enlightenes notice, the following project, which I believe could be apecuted under the most favarble natural conditions, 2 Know of outside of alaska. Here, howevery we are in the center of a your agricultural region, where firstins could be used to a Great advantage for the whole Country; and we are also on water and Vail short hand to tide-water for milimited foreign export de. Apraeticully control a water Dower here con the coasts where I believe, that some two of not three hundred H. P. Electric contr be developed at a minimum cost for fuch large enterpreses - say 50 coper top and those are rast deposits ? line Rock- 95 to 98 % Lune-

P. M. ISENSEE

REAL ESTATE AND LOANS

in the immediate vicinity of on the rack road. Cerides, in this immediate Vicinity is also an immeure deposit of Clay, most fuilable for the manufacture of Coment to which the line (which is often as high ar 990/0 five) is also wonderfully adapted, as the good has already reported on its some years ago. More are also said o grovel for building purposes along with it in endimiled quantities. There Jollowed with a post deal finbrest your efforts to contract cheep & Duroble Horner forke Saleries & mage carne Classes, and may god Johnah. Clothen bless you for Hyour

especiallo Cepostolic efforts in that directions Day "Epostolie for anyon well Knivo, the volule apostolic Olivreti (galaine melining really social organisher with brown some mas Economic offinitual insepuebly alled for the uplift of the Great masses, whom Jesus Certainly Came but up + culipten on the material plane of therefore to save Through His Clierch Economic, the very come as He came To save all unto spiritual salvalar offe stonal. Therefore Shone every dearon, both practical of Spiritual on my side, when of Call you au Economice afostle of Jesus - to the indent that There to noplace for flattery on my part. You lee what I mean. Furthermore, Same Joundance

a War Babies Home, as Image call it a home for orphuned + abandoned nar children rictions of the great Shugge the late chust is now magny to dominate our modern mored - just the same as Through Bone, Pagan o Mediaeval-as well as through the Zunspeckable Furkhe tred to dominant our amount medianal world. What Ever more, I am creating or rather taking the milealuse of goes for this Anne which Imenter that you may not think me mereinary in my motifs, when asking your assistance by the way of gladice "

regarding the machiner

people the best to go to for the money & Jenance it-Curhore a model Electric City could be beult + um prosprously In all by reason athe inlimited electre H. F. That could se developed, especially as orthur a radius of 200 40 250 miles, Ishento judge from a francator, over 300,000 H. M. deship 1.000.000 for all & know) could be developed and we gold ark for the developed and me only ark for legislation favorthe for Bonds placed in the U. S. thesaway the State of Manhagton and Jaranters by the State of Manhagton and Jaranters by the State of Manhagton and Jaranters by on which full ligal tentory and be usual aske cosh of pruling the bankuster there latter to be relised at a contain I Nesse taller (to go goes (25)

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20 year. Over the Grander

20 year. I well founded object

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Colored (see + week founded object) idea we the Comman planselle of well frames forther property of the property of t

P. M. ISENSEE

REAL ESTATE AND LOANS

Pour Scriptum.

I know you are meeasurgly occupied and it does seem ant of place for me to writeyar to Enga litter Mut the be read as your leasure moments, perhaps without too much inconvenience & you. Still the proper & bring to your notice is one well worth your attention. Jone one the Great Statue Uponthe of the World of here is a spot where the scalar and Chagest Eledric power in your nature land could containly be de reloped t in a most feeled hearthy center, with nines of all kind in the Some teatien more or less, the Bacall raw naturals for Building an abundance. or less, the Bacall it may bely therefore To write parther letter, especially when Some Lay privately reconfidentially Hoyore, that have every reason to believe that three at least of the needest men ofaculties in this country will stand hand

assut us more or less; while I have The certainly that as soon as the wer is over Sohall procure Very Valuable Concessions for the work of carry for mar opphens, from the Russian Government in Liberia- Mus is also private. But The good Punian Gar alig 11. (who helper save our Regultic from Discussor in our coul mor) once united we A become a number for life, of & muled, of his official household, privation being made for me for the guttere. Onne Frukehowi + Princene Mesengoff, Pur Sister, were my intimule fruits, and it was Processe Warenoff, his cousin , who especially inspersed that greatest o most lumanilarum of Rumia Ozars & liberate the 20,000 Por Ruman Leafs- Phuch he aid of his own free will h by no means under the presume & upperferrey of Now Times a layered with us -all fory is Smooth Sauce is Thing mo.

PALMER PHYSICAL LABORATORY
PRINCETON UNIVERSITY
PRINCETON, NEW JERBEY
March 25,1916.

Mrs. Thomas Edison, west Change, n.g.

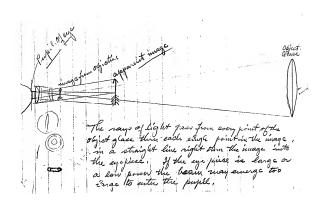
Lane bun coaled with platening & translet by the so called withing on the of terminal by the so called injutting on the of the coal being gut their. The package are marked 9, 8, 8, 8, 8, 10, 10 planes of them of the coaling at their cating them? If the coaling the many attains with appear the property of the valle so that you would get the soul to the formal good them to good the the them to good think the

PALMER PHYSICAL LABORATORY PRINCETON UNIVERSITY

coating thick enough if you want more. If you have other metits of the deviced would you furnish me sheets of the deviced metits to to wish carry furnish, one sheets of the deviced metits approximately there inches against thing neptrong you want I will be able to prepare in the way where me is included in the able to prepare in the way where he included in propared.

Jones Took, Trench.

[ATTACHMENT/ENCLOSURE]



J. ROSEN

PARIS

PARIS

Ist April, 1916.

Mr: TH Edison -Orange - New York.

: 2385

El Doller and Other

conversation during my stay in New York - I herewith take the liberty to remind you of same and to ask you if you would be kind enough to take out patents, stc.

And trusting you will favour me with your kind reply -

Believe ma,

Yours very truty,



A.W. THOMPSON.
THIRD VICE PRESIDENT.

April 29,1916

My dear Mr.Edison:

8387

You no drubt Feeall that on a trip which I made to your plant about two years ago you had an instrument for determining accuracy or quickness of the brain in reopending the audible eignals, and at that time you told me you thought used an apparatus could be applied with practicability and success to teeting the ability of their location of the property of their location in a course of their location in a course of the state of the

Since that time I have been very much interested in teste of this character as well as others, and recently secured the cervices of Rr.F.Kenbe of New York, who is conducting an and repairing the state of the content of the cervice. I have taken the liberty to write you this note asking that you see his for a few moments and give his your opinion on this would be content of the content to do so.

I remember with a great deal of pleasure the interesting as well as instructive day that I epent with you at your plant in East Grange, and an looking forward to the pleasure of another trip to your plant some time in the future. I will appreciate any courtesice you may be able to show ir.Kemble, and I hope to have the pleasure of reciprecating at some future time.

With assurances of continued respect and seteem, I am,

Youre very truly,

Mr.Thomae A.Edison, East Orange, N.J. M. Thyngson

american diventor New York U. S.A 12 4 July 1916 12 curtin You will no doubt, have heard what - Lavoe miners- / thisis is Causing amongst the Cabourers in the deep Goldmenes of Johan-The only remedy ketherto applied is pumping air into the gallenes & spraying water with

neighbourhood of his de diamond-drills in order to minimise the injurious effect of the infinitely menute particles of dust, the indaling of which is he carre of the falal deserve - Ut is so deadly that no worker in those mines has a longer leave of life than four years! The remedies above mentioned, though they serve to abate are ineffectual in preventing respirator has get

heen invente which is able Completel, to Exclude The fine sharp dust 25,000 particles of which are cal. culated to go into a cubic Now, it seems to me that of a Contrivance Could be Insented by which the mener is enabled to inhale only pure our the disease may be cradicated. my idea is that if each worker could Carry on strapped to his back a rubber boy filled with fresh their (a supply of which mught be pumped unto a reservoir down in the more for the purpor of refeller, the india-rubber

bago) and i one rubber thise were the lead from when once open will his bag into a mask ! stay open felling closely to the mans fale, whilst another The immerin importance pipe communication with of a Contrivance which the surrounding all words would would effecserve to exchale the acro - teally prevent the used-up air from his benys premature death of then theoretically there thousands of miners megathe an end took taco deseave - I have the said has made me verture to write to you of a system of volley Closing ropening can the mines as pales lang to balls to be the practically counst If the problem could be practically solved it would prove not see think out the problem only a boon to humanty, of how to close the value but might also become Twhich is to let in the fresh air from the rubber bag - for it seems to me that such a value When a source of profile both to you, and to myself

I am sending you under se parate cover the report of the - Select Committee of the Legislature of the Soula agrican knim on miners-fitheres in wared you will find all the information regarding nous bulf Fee Reit

[ATTACHMENT/ENCLOSURE]

Tuse in my furious factories a Respirator which wick keep particles to the cent of the long which are many times augles than those you wenton The usual respectator does not Let the Contour afthe deferent faces of the Meners of the Valva in them is of no Earthly use a is dangerous - Tuse the ordendry rubber Respirator plug The Valor with sponge It line the whole Edge of the rubber with thick sponge so thick that the Edge always fits the noses face - the Springe is sewed

[ATTACHMENT/ENCLOSURE]

on, the fruit pore the spring stores should be used

The Resperator is put in conten + then purplus conter squeezed out leaving it damps - Breathing) is Very free - the skin on account of the oponger moisture is not initated + the men acon get was to them Where we have 100 men we have a man whose solo Girme is to patal on aponges Keep Them in order a Keep there clean - Each workmen has 2 one in use + one for washing, seeparner 260

[ATTACHMENT/ENCLOSURE]

3

Thave new who have worked for years in an almosphere so to aded with fine dust that one person could not see author 15 ft destant 4 yet these men are bettling = Impel while Experimentaling while these conditions helps work (here tought a time of nathering Entered mey lungs —

Day that the mocket of newspaper book success have automatic folding much, or they could easily be allere Hospital. insize difthe mifro and fold the gauge with immense rapidity ter york city To Mr Thos. a Edison ask The reducest pringer Bear at a Congress account it note but I believe you can be of assistance to me if you are liveling to do so. I am a nurse in Bellevue Hospital and much interested in what ever tands to help in curing those who are sick and suffering We are trying to do good here in congested New York and although Bellevue is a large institution with many good and efficient murses we can hardly at all that live would like for the many who enter our doors It takes several of four good nurses. and two graduates alone, in oder Surgical slupply robons working as rapidly as possible to keep enough galage fooded to the needs of our Surficed Wards and Operating rooms and still he cannot get enough ahead. In case of a possible when much more will be needed and I do viot see how we can possibly meet the demand. I am writing to you to ask you if you

do not think it would be possible for some kind of a machine to be invented where buy this work might be done more quickly and just as efficiently, there bye making it lasier for us to keep up our supplied. Wonderful things have been done along the line of science and invention and great things have been accomplished in There his nothing that would help more to aid the suffling of thousands of people all over this vait United States than arinvention of this kind a machine for folding the gause used in dressing wounds and carridg How the injured Do you think such a machine might be possible? It is much needed and I am asking you because I know, with your knowledge and what you have done in the past york could at least inform me as to the phility of securing this. Sam enclosings a samples of the gause most comonly and you will note houdit is folded-to gether; and the sign; The largest of the pieces is called a 4 by 8 because if perfectly folded it should neasure 8 inches long and 4 inches wide

The others should measure (2 × 4) 4 × 4 and 2 × 2 inches according to the size. The point in folding the gauze is to be sure there are no inde strotruding, and no threads that might lober and enter the thounds.

Those Mr. Edison, will your kindly answer this letter even if it is obly by a line? I have been thinking about suth a machine and the way affairs are in the W.S. and

this letter letter if it is obly by a line; I have been thinking about sulf a machine and the was affair are in the w. and our relations with the various countries, I am eure (in case of war) such an invention would be alreal blusting to humanity. I am only a very ordinary nuise that

Simily my work and Lam arrivous for the heatth and happiness of the greatest possible number of people. Please head this letter there let he know and I shall be more than gratiful to you. God has given you such honderful lapacities that I ambure you want to help others also. The Supt. of Billevie Training School for muster, I am sure will uphold me in my desire of others works I shall be a macline to do this works I shall be awaiting your reply, but should you

desire further information, or help or if you ever care to inspect our Hospital and mithods you may come at any time. I am sure a lour of this immenst institution would be both interesting and instructive.

awating your reply. Bellin me

Very Lincerely. Olssie E. Morgan. 0.S. Jam anclosing that amped oddurud envelope for a repetition sorry to take your time but the in the more than Nother to help other people his their fight for health must a windy for the length of this but there is the other way I can explain excepting by letter as I am very busy every day and could let you knot in almy other way. Hope you will be interested in visiting Bellevue and I would be glad to graide your around the place, If you find it convenient to in vestigate our work here. am enclosing a pictual of the new buildings which will be up to date in every detail good look in our HENRY J. BRENNAN
MINES AND MINING

Come ADDRESS

advecaded pulling from the Cont

at the mense turning the Cont

tite Clearly and control of the Cont

it Thomas Addison.

Orango, H. J. A. Black has carried

Denr Sir:

In reply to your esteemed favor of the 9th inst. for
which I thenk you, I trust I may be pordoned for venturing a
word or so more on my subject, "Oheup fuel."

In your latter you stated that anthracite coal was obt of your line, and that after it was turned into electricity, you "come in". The world knows that, so do I, and I know too that what I know may not Count Emmch, and that the world know nothing, and ceres less about what may of my cloth presume to know or say.

The enclosed clipping from the Soventon Times of the 5th instits a fair truthful statement of the value of unmined coal in the ground.

I know but mighty little about electricity, I am sorry to state, however, 'tis said that an open confession is good for the soul. Electrical Engineers of reputation tell me that oheep fuel is an important factor in producing electricity, some of them have stated to me that what I have in mind will produce electricity as cheep as it is produced at Hiegera Falls. Be that as it may, the following is a brief summing up.



In reply to year estomed favor of the Ste inst. for which I then you I truck I may be personal for vontaring a word or so more on my subject. "Cheer fuel."

In your letter you stated that anthrecite and mes ont, of your line, and that effor it were turned into discribity, you "so a le". The world know that, so do I, and I know too that what I know may not Count for much, and that the world know hothing, and coron less shout what many of my cloth presume to know or se.

The enclosed clipping from the Coronton Times of the 5th lestis a fair truthful statement of the value of unsided could in the ground.

I know but might, little wheat electricity, I nowers to state, however, 'the said that an open confession is good for the scal. Electrical Engineers of reputation tell me that chess fuel in an important factor in producing electricity, sees of their have stated to me that what I have in mind will produce clockfully scheme as it is produced at Blugare Palls. So that so it may, the Collowin is a brief smanling up.

Meor Pottsvillo Pa., in the heart of the great southern anthracite coal region, are a half dosen small coal properties that can be grouped together, which will total lloOscres, which, on a safe estimate, is underlaid with 100,000,000 tons of merchantable coal of which 55% or 55,000,000 tons will be steam sizes of coal, of the finest quality. I can group those properties together for a price for the ostimated coal in the ground, which includes the coat of a 1500 ton dailypeacity coal breaker, for a price of two cents per ton for coal in the ground. The life of the coal will be approximately not loss than 250 years.

The Schwylkill Velley, down along the Schwylkill River, all the way to "hiladelphia, in Ottics and Towns, is thickly populeted; Philadelphia being the second City in the Union, the cost of electricity, it is cleimed, is higher than it should be.

If coal is an important factor in the production of electricity, I am simply wondering why it might not be a good plan to reverse the order of things, as I have every reason to believe that someons, some day will do, and instead of hauling coal to 'hew Cast'e' at a high cost, erect a large electric plant, near the mine, and supply all the Cities and Towns, including Philadelphin, from and including Potewille, all the way down the Schwylkill Valley, with 'fuel of the finest quality, not to exceed one dollar per ton for steem sizes.

My line of thought in order to enter into such a contract for approximately 55,000,000 tone of coal, at such a low figure, in so far as the production of the coal may be concerned, is a bit original in so far as coal mining is concerned, I contemplate organizing a company, and interest overy man and boy in and

about the mine, as employed, stockholders, in a small way in such a company, for good sound reasons, That plan I deem fossable and practicable.

The wise men of the east may ridicale it. I have in mind in so fer as this class of gentlemen may be concerned, that once upon a time about the seme time when they laughed at the Boll Telephone, and laughed me out of Court for insisting that there was all gelore in the old Indian Territory, now Oklehoma.

I know, however, that a legitimate profit can be made on prepared sizes of coal, over and above steam sizes and that steam sizes can be sold at the figure I have quoted.

I can arrange with the proporty owners to accept one half of the nrice for their properties in 65 - 50 year bonds, if I succeed in interesting someone who may be big and broad enough to finance the other helf of a bond issue, through none bank or bond house, without assuming any financial responsibility, in consideration of cheep fuel, provided that I can substantiate my statements, such a house to be made treasurer of the comment and of a sinking fund, until the principal and interest of the bonded debt is paid. An examination of the proporties by a competent coal Mining Engineer will satisfy enjone that my statements are correct.

That particular section too should be a strong commedit, toy in the way of cheap fuel and other adventages, for the location of the contemplated Government armor plant.

With best wishes always, I am

Respectfully yours,

My Breman,

HENRY J. BRENNAN MINES AND MINING

CAULE ADDRESS KIRKOREN--W. U. CODE DELL TELEPHONE 120 R

CARDONDALE, PA. Aug. 23, 1916.

Personal

Fr. Then. n. Edinon, Orange, H. J.

Dear Sir:

In answer to your esteemed fever of yenterday, I desire to may a word or no more and then, unless my subject should expect to you, I am done, as I will not attempt to presume further on the time of a mighty busy man.

I have the coal properties, for a price of two and one-half conts per ton for coal in the ground, not thirty five cents.

I have examined those properties minutely and an not satury in my estimate of 100, 000,000 tone, as that estimate is backed up by the ominious of other inglueous of regulation and experience.

I have a carefully prepared report, a conservative resort, such as may be relied on, on those properties. If you might care to read it, it will not here you, I'll be pleased to forward it to you.

Very respectfully yours,

Throng & Breman

Junderstand that the use of hydraulic scroes is not enough all the large Jams have Their pools heated Fory hat It forced in a gelowed to shrink o Igahu 20 dytander 1910

Or Sir yor Some time present to this "Har bornes an idea, there was room for invidences, a know man for invidences, a know man for invidences, a know was some for the work or 2 and.
"This was beend to have present to the, the want of duch

a wide Not brouble you with any Adails as potent, but will not brouble you with a bough Aleriptim of the idea. It is applicable to all Pleasy Gand, lay prove 15th applicable to all Pleasy Gand, lay prove 15th applicable to all Pleasy Band, lay prove 15th applicable to develop the Cliftownt of Anather or develops, before the the the things for together by Masons of thy strucks partitioned. A matter struck complete the whole Structure, which is term warried to the term with the whole Structure, which we gave worked to distructure the term way the structure of the term of the te

At the Junt are Manufactured at present "that is as for as I can have "they a far too heavy to comber mo to ano hable to caule Collapse, of Road's, standard on wing, to their enomined weight

Not being in a portilin to do anything in the Matter mystelf, I thought there would be to know, on patting the idea before, a Gentleman of gour Standing in the Lone of Scence or, I montain so, feeling, confedent, you will go to the Subject your samest allention; provided your thank the idea practical.

I have written the 2 tr. Lloyd George , by the dame to wil, the Same Subject. Allo informing him, that I have written you

If the idea it worthy of your attention . I will take is at a complement, if you will Kindly of Spy

I have the Honor to be fir Your Respectfully)
(1) wird Hilliams

Mining & Engine Smith ergwhere

Greymouth. M. Great S.S. New healand

Zealand



The Commissioners of the ate Reservation at Niagara

hongarax dinbanthon

Kingston, New York, September 22nd, 1916.

Cleanicater - 9 Chenk

My dear Mr. Edison:

I happen to be one of the

Commissioners of the State Reservation at Niagara. A discussion has arisen, and I write to ask you whether science has as yet determined precisely what electricity is. It is hardly necessary to say I am not speaking of its phenomena or effects.

With many kind regards. I

Very sincerely Tearla

Tο

Thomas Aliva Edison, Esq.

West Orange.

I count reced this New Jersey.

Know Mempowall

Electricity



The Commissioners of the State Reservation at Ningara

WILLIAM B NOWLAND, PRESIDENT NEW YORK THOMAS W MCACHER, SYMACUSE GOORE J. MEYER, BUTTALD FALL A. SCHOOLINGPY, MAGARA FALLS ALPSCHISO TOLERANDER IN MASION MARRY K CCREATE SUPERINTENESS.

ingara Falls of My Kt Kingston, New York, September 29th, 1916

My dear Mr. Edison:

I beg to acknowledge the receipt of, and heartily to thank you for your letter of the 25th instant, stating that science has not yet determined what electricity is.

I had read in the newspapers at about the time of the subway accident in New York, that you had expressed this opinion, and so stated in the presence of an electricial engineer by the name of George T. Henchett, who with a great show of cavidation stated exactly to the contrary, and that science fully had determined what it is, and at the suggestion of a number of gentlemen who heard his statement, I wrote my letter-of the 22nd instant.

With many kind pegards, I am as

ever,

Very singered jours

D.A.MILARTY PRESIDENT

M.W.HINGELEY, CASHIER



Mr. Thomas Edison, Orange, M. J.

I suggest that a princtical way

Dear Sir: I am taking the liberty of writing to you and asking if thru some means semething could not be devised, either of a mechanical or chemical nature, to redeem the many thousands of acres of valuable lend which lie unproductive and are a great economic loss because no practical means of exterminating the stumps has yet been discovered. Such a discovery would not only be of great value to the farmers of the country but to the whole country as well and all countries there great tracts of such land are to be found. It would seem as though something of a chemical nature, which, when injected into the atump would cause rapid deterioration would be the sheal thing. Would you kindly tell me wither there is anything which would brin- about this desired result and if not do you think it would be possible for some such thing to be worked out ? Thenking you for any information extended, I remain.

Very sincerely yours,

October 12, 1916.

ifr. Julius H. Zobel, c/o The First State Benk of Floodwood, Floodwood, Edmosota.

Deer Sir:-

Cour fevor of the 8th instent has been recalved. To set if I know of any chemical which,
when Injected as if I know of any chemical which,
when Injected as I do not know of any consider
that round do it quick enought. I suggest that a
precised vey of recoving the tree stamps would be
to use sheet from conor, with oblimacy attached and
then not the atumps on fire. They will burn be
then not the atumps on fire. They will burn be
the ground and captacle the main roots. I have be
it heaverith.

Yours very truly,

Mr. Thomas A. Edison.

Llewellyn Park, Orange, N.J.

My Dear Sir:

Knowing that you were yourself once upon a time, a telegrapher, thought you would perhaps be able to enlighten me upon the subject I am writing you, and that if it has never before been done, that porhaps you might be able to make use of it in future. "Why cant a ordinary telegraph relay be of more use

than what it is used for". Some few years ago while I was working on the old Vandalia lines at Terre-Haute, Indiana, I had a little experience that has often caused me to think that the "telegraph relay" could be made more use of, if some one like yourself were to take hold of

The experience I had was this. One night while on duty, everything perfectly quiet, I distinctly heard these words cons-plainly off of an ordinary telegraph relay on my table "Hello Bill, Hello". I thought at the time of it a great deal and have since spoken to several well versed in the telegraph field, but since spuces to several well versue in the telegraph lead, out they have thrown no light on the subject, other than to say it was probably used as both a tolegraph and telephone wire, which I myself thought of, but that did not alter the fact, that if I myself thought of, but that did not alter the fact, that if relay, that surely there was a way to get more use out of it than what it is ordinarily used for.

If you think this of any use, or worthy of being looked into, would you kindly let me hear from you on the subject. Thanking you, and trusting I have not troubled you,

I beg to remain, Yours very truly,

am relay ocet a lelephone am relay ocet a lelephone oce was it (in a comment of the comment of t Telegraph Dept. Louisville TIMES. Louisville, KY.

Dr. Gocar M. Marchana Wasse singue Datins Lexas

Lexio

November 21, 1916.

Mr.Thomas A. Edison, Orange, New Jersey.

My Dear Mr. Edison:-

Please give me your

opinion in regard to the use of electricity as a purifier of water. Can water be purified by electrolysis?

Thanking you very kindly

for this information, I am

OMM/VII. Commission of the Com

Water has been purified not by Electricity but by Good made by Electricity you showed been earthout faking as there are many faking abroad within time

Hovember 28,1916

Dr. Oscar M. Harchman, Wilson Building, Dollas, Toxas

Dear Sir:-

Roplying to your favor of the Elat instant, ir. Edison requests us to say that water has been purified not by electricity, but by esone made by collectricity. If you are invited to go into any proposition of this kind, you should exercise very great caution as there are many fakirs abroad in this line of presention.

Yours vory truly

249 maple av., Che, Pitts burgh Pa. In Thos a. Edison mento Ph, n.g. Alean Sir, In reading Edison by Wyer, I learned of a device for pery sensative to heat, which was built on the order of a microphine (2 sheets of Platin with a carlon buttenbetween + in stick of hand rubber with shorp prints), as I am in need of a charp device to roughly distinguish between daylight & dark operating a relay, I am interested to Know if this tasimeti " was ever levelfed armunically, or if it could be made to work commercially for the purpose I mention? I would appreciate very much any information that you could give me on the outjust. huy respectfully gones what he wants There are u Delanium Cell us

Docember 2, 1916.

Hr. H. F. Porkins, 249 Haple ave., Edgewood Park, Pittsburgh, re.

Dear Sir:-

noplying to your fevor of the 25th instant, Mr. Edison thinks that the device you need would be one in which a selentum cell is employed. He does not know the the makers of these cells are, and perhaps you can find out through Queen & Co., Philadelphia, la.

Yours very truly.

Edison Laboratory.

A/1442.

#11 Fullerton Avenue, Montpelier, Vermont, December 6th, 1916. FILE BWT.

Mr. Thomas Alvah Edicon, East Orange, New Jercey.

Sir:-

566

There has been unmarked achomy der warm delen meller clas bedemaken y hours been myself trying them of the active property affile almospheric desires a much of the dewer may a throw valet rays or also the hotel with the control of almospheric where we have been been dealed to these there have been dealed on high these there have been dealed on high these throughout the same and present and I am taking the liberty to address you in

this wise hoping that you will be so very kind as to give me your opinion regarding an idea.

In theory, I have arranged a few pieces of apparatus to form a system for the transmission and reception of communication. I might state that there is no commercial reason for the existence of this form of communication. It is my opinion, however, that it might be useful as a military signal.

As far as I am aware there ie no form of military eignal that cannot be picked up by an 'enemy', either by sight, cound or electrical means. By idea hae the advantage that, as I see it, it cannot be picked up except by for whom it is intended. It is only useful, as you will see, over such distance wherein a direct atmosphere or other course obtains. It is as follows:-

Transmitting.

Steady electrical power supplied by battery (or dynamo, if convenient)

to an arc. Are located in (rear) end of lightproof metal box, mounted so that it night be swung in any position. (Approximate dimensions: length two foet; height and breadth eight inches. Peep shutter arranged in wall of box by which are could be trimmed. Reflector behind are, tending to throw strength towards (front) end of box. Light passes through two convex lenses, arranged a convenient distance apart. Telegraph relay set in floor of box, in such manner that a tiny'shutter', attached to its armature would interrupt the light point when relay magnet was not charged. Relay governed by cell and telegraph key. Screen (nitrose de menthyl anione) set into front end of box, passing only ultra-violet or infra-red rays.

Receiving.

Three sets of celenium cells. One set arranged vertically in a circle to pick up signals traveling on a level with receiving set. One set arranged above first set, tops inclined to pick up rays coming from above. One set arranged below first cet, bottoms inclined to pick up rays coming from below.

Then any cell is excited, a metal tube, fitted internally with steppes to exclude all foreign rays could be brought into position to receive rays from the transmitting set exciting the particular cell. Rays to be picked up for record by means of a belometer arranged in back of tube.

I realize the idea is in very orude form, but it is my firm belief that it will work. I fail to see where an 'enemy' could mick up the signal.

I wish you would give no your frank opinion as to whether this signal has military possibilities.

Hoping that I may hear from you, only,

however, at your leisure, I am,

Very Respectfully

1.1. League,

(A Telegrapher)

Documbor 12,1916

Mr. T. T. Tengue, 11 Fullorton Ave., Montpolior, Vormont

Dear Sir :-

Replying to your fever of the 6th instant, let no tay that there have been innumerable schemes projected for using Solonium Colls, also belonators. I myself have been trying a number of them.

The aqueous vapor of the atmomphere absorbs so much of the lower rays and the ultra violet rays, and there is a much of the hasy atmospheric interference, that none of the schemes based on light have been made practical unto this time.

Yours vory truly.

Edison General File Series 1916. Articles (E-16-03)

This folder contains correspondence requesting Edison to write articles, letters from journalists and publishers seeking to interview Edison or solicit statements and photographs for publication, and other documents relating to articles by or about Edison and his inventions. Among the documents for 1916 are items regarding the deaths of Edison associate Jonas W. Aylsworth and Canadian inventor and engineer Thomas L. Willson. There is also correspondence pertaining to Edison's camping trip with Henry Ford and John Burroughs and to his health and sleeping habits. In addition, there are clippings, draft letters, and marginalia containing Edison's opinions about political matters, including woman's suffrage and the presidential election. A statement prepared for The Engineering Magazine announces his opposition to a bill introduced by Rep. Clyde H. Tavenner to prohibit the payment of bonuses to government workers on the basis of efficiency studies. Among the correspondents are Abraham Cahan of the Jewish Daily Forward, author and self-improvement training pioneer Dale Carnegie, and Joe Mitchell Chapple of the National Magazine.

Approximately 50 percent of the documents have been selected. The unselected material consists of items that received a perfunctory response or no reply from Edison.

The Butterick Building (635)

THE RESIDENCE WOMEN PROCESS AND THE WORLD WOULD LIQUIDE James y 4th, 1916.

to much of my time maddition 9 am

My door Mr. Edison: 4 nest a stakeaman

The time for discussing terms of pages in Europe cannot be far distant. In a way it is not america's affair. But America is relative concerned and just now the boste of us would like to know for our guidance what our own Great Come think the terms should be. And Europe might core to know. Tould be helyed in Knowing.

will you hance TYENYEODY'S and serve your fellows and possibly the nations at war in answering six questions? We are asking these questions of twenty distinguished American. The answers to constitute a symposium in EVERYEODY'S MOMAZING.

These questions are only euggestions. You are free to ignore any of them or all of them. Your idea of what the terms of peace should be is what we are asking for.

(1) What changes would you make in National boundary lines as they existed before the war?

(2) Would you preserve the complete individuality of the smaller nations or federats them into larger units?

(3) What nation or nations should receive indemnities? To cover what? What nations should may them?

(4) What plans and guarantees would you advise to insure future safety from military interference?

(5) What plans and guarantees would you advise to insure future safety from commercial interference?

(6) In your judgment would or should the Monroe Doctrine prevent America's joining Europe in these plans and guarantees?

May we have your contribution to this symposium, which we are planning for the March EVERYBODY'S, before January twentieth? Meantime will you have your secretary mail to us or tell us where we may secure the photograph you prefer for reproduction?

Ws are sending you under this cover January EVERYBODY'S and pamphlet showing how we handled the symposium, "What Do Britishers Think of America's Neutrality?" The proposed symposium, "What dietinguiched Americans think about the Terms of Peace," should be even more important and helpful. May we have your contribution as soon as possible, even if it must be brief?

Mr. Thomse A. Edison.
West Grange
New Jersey.

Amany Ruly and

ASSCRATION

...

r. Thomas A. Edison, West Orange, January 6 1916.

Dear Mr. Edison:

The secretary of the American Thrift Association tells me of your deep interest in the movement and is working with me in bringing before the youth of North America in our coming Thrift issue, the saving habit of saving.

will you not put into a few words your of the Thrift Habit to a young man, workman or clerk, on the threshold of life?

Too many of their futures have "all gone up in smoke". With ten, twenty, or thirty cents a day spont in cigarets they have been out of pocket and out of brain tissue.

We want to help men build homes, build a business, build a character, build their futures - and Thrift is at the bottom of it all.

By this mail I send you a copy of our Thrift issue of last year, in which James J. Hill wrote the opening article, followed by Mr. Ford outdhis experience.

Pardon me for writing you, but thousands of young men will thank you for what you write.

Sinceroly yours

Muses Oler



OFFICIAL ORGAN OF THE INTERNATIONAL

West Orange, N. J.

Thomas A. Edison, Esq.,

January 12, 1916. 6500

Dear Sir:

Perhaps you remember about one year ago giving an interview to a correspondent of the Hew York Times, in which you make what you considered the principal achievements of inventors since the clasovery of the electric light.

440 South Dearborn Street, CHICAGO, ILL., U. S. A.

There were seventeen would benefits in this list, and we recall that among these was: "The discovery of the commercial method for the production of acetylene."

The man who was really responsible for this discovery - who made possible the great acetylene industry of today - was Mr. Thomas Leopold Willson, Canadam acienties, engineer and inventor. On Decomber 20, last, he died following a sudden illners in New York.

His a-rvices to the world, through his inventions, were multifold. Probably you knew him personally, and trusting this to be so, we come to our reason for mitting at this time.

As official organ of the acetylene industry, our publication feels incumbent to present a fitting tribute to the late Mr. Willson in our columns.

We wonder if you would be so kind as to favor us with a word for this purpose - through your recognition of connercial acetylene as a world-benefitting discovery, such an expression would be most fitting as due appreciation of a noted scientist foremost prominent in the event.

A word from you would be greatly appreciated.

Yours very truly.

Yam sorry to learn of the

THE CURTIS PUBLISHING COMPANY INDEPENDENCE SQUARE PHILADELPHIA

THE LADIES' HOME JOURNAL THE SATURDAY EVENING POST THE COUNTRY GENTLEMAN

VOCATIONAL DIVISION

January 12, 1916.

Mr. Thomas A. Edison, West Orange, New Jersey.

Dear Mr. Edison,-

both socially and intellectually considered, other professions. He can't see that salesmannly proposents a respectable life this employee. We see that salesmannly proposents a respectable life this employee. We manning a special content a translate life this employee. We manning a special content, to see a translate to calculate the manning as you estimate & that may help this young and offer present concern, to see straight? I'll find opportunity sees of these days duly to think you.

Yours very truly,

Manager Vocational Division.



24 EAST 28TH STREET NEW YORK

PRESCRING THE HORTH AMERICA

Jan. 13, 1916.

Mr. Meadowcraft, Secretary to Mr. Edison, Orange, H. J.

6608

Dear Mr. Meadowcraft:

You have been very kind in co-operating with us in attempting to secure from Mr. Edison a special message on Thrift.

I can quite appreciate how overwhelmed he is with work and the many appeals that come to him.

However you may be able to put your head on some statement he has made in reference to Thrift that I might quote. For I know that this is close to his thought and a sentence from him would not treemedously in helping many a fellow who has carned to appreciate him by the way he has struggled up and the splendid accomplishment he has made in him life.

I would greatly value such a quotation if you can locate it. It will help many a fellow climb up. Thank you.

June Ole

Mr. Edison I think I topic heard you say that as a young man, in telegraph rays, you should always opened at Sanings Banks account in way low you would be work in I grows the books inclinity to make you think since of your sinceiver to make you though, in teoping brack of the Investments.

PUBLIC LEDGER

NDEPENDENCE SQUAF PHILADELPHIA

January the Thirteenth

(6559)

F. Level.

Thomas A. Edison, Esq., West Orange, N.J.

My dear Mr. Edison: -

With respect to the rapid re-building of your plant for making phenol in Hewark, we venture to ask, for editorial information, that a statement be prepared and sent to us indicating the extent or trude in carbolic acid in this country, and the need for the commodity produced by the war.

We should welcome from you from time to time information, not necessarily to be published, but which in your judgment might serve as a proper basis for comment on important effairs of which you are specially cognizant. Before expressing editorial opinions we would know the facts in their true bearings; we wish to be unusually well informed, and therefore more responsible in our utterances than newspapers that are not national in their scope and purposes. Should you be disposed to render this service on occasions selected by you, I am sure that it would prove of high public interest and value.

ask hum to corre questions + Ywill lay a account fresh Bengandum Carbolia Anthony to the coffeel Your from the control of from the control of the coffeel Your from the control of from the control of the coffeel of from the control of the control of from the control of th

Jan. 17th. 1916.

Er. H. B. Brougham, Public Ledger, Independence Square, Philadelphia, Pa.

Dear Sir:

Your favor of the 13th instant to ir. Edison has been received by him. He is exceedingly busy on some special investigutions that he is making, and has asked me to trite to you and say that if you till send him a list of specific questions in regard to Carbolic acid, aniline, Bensol, etc., he till try to enswor those that touch points with which he is .

Yours very truly,

assistant to Mr. Edison.

TELEPHONE CONHECTION

THE ENGINEERING MAGAZINE

Work (www. of ninery 17, 1916

My dear Sir:

I am indebted to Mr. Rollin W. Hutchingon, Jr., for your personal address, and I take pleasure in sending you by this post a marked copy of the current number of The Engineering Magazine, containing a special article from his pen, which I regard as altogether the manest and strongest statement that has yot been made as to the future development of our Hotor Truck Industry.

The pleasure automobile has wrought a revolution, and for more than two years past I have been predicting that the actor truck is certain to work a further and greater revolution if the industry be directed along tried and proved lines of constructive commercial enterprise.

'In other words, what Henry Ford and others have done in standardizing and popularizing pleasure automobiles, can undoubtedly be duplicated over and over again in notor trucks.

I saked Mr. Mutchinson to give me a list of the "thinking men" in the industry, so that I might send his article to them, and as he includes you smong those who ere thinking intently upor the problem, I take apecial pleasure ir sending you what he has written.

ADDRESS ALL COMMUNICATIONS TO THE CORPORATION



Mr. W. M. Meadeweroft, Edison Laboratories, Orange, N. J.

Dear Sir:

To desire to include in our settion of PATHE HITS issued on Pathern The plates of the Towns a. Addison, whose birtheres property we understand, occurs on Pathern The Part Lin purpose, we require not nor than fitty fact of film, showing Lir, Edison at work or at leasure, to be used under a caption somewhat as follows:

"Thomas A. Edison, electrical wisard, celebrates his sixty-ninth birthday."

As you know, it takes less than two minutes to expose fifty foct of film and our cemeranism would take up little more than this of Mr. Edison's valuable time.

Till you kindly bring this matter to Er. Edison's attention together with the request that he favor us by allowing the picture to be taken?

We should like to make this film as soon as possible, but it would be available if taken not later than Pebruary 6th.

Thanking you in advance for your courtesy, we are

Yours very truly,

Mr. Edward are it is not necessary

HWF/MCB.

Jon. 25nd. 1916.

Patne hews, 1 Congress Street, Jersey City, N. J.

Dear Sir:

I am in receipt of your favor of the Euth instent, and have consulted ir. Ecison in regard to making about fifty feet of film showing Ur. Edison at work or at leisure, to be used in your rathe Heres of Fobruary 12th.

iir. Edison is willing that this picture may be taken, but would prefer not to so it next wock. You can call me up if you like in the beginning of the week of January Slet.

Yours very truly,

Assistant to .ir. Edison.

THE CURTIS PUBLISHING COMPANY INDEPENDENCE SQUARE

PHILADELPHIA THE LADIES HOME JOURNAL THE SATURDAY EVENING POST THE COUNTRY GENTLEMAN file moore

VOCATIONAL DIVISION

January 20, 1916

Mind Mind Control 1

Mr. William H. Meadowcroft

Assistant to Mr. Thomas A. Edison

West Orange, New Jersoy

Bear Mr. Moadowcroft:-

to be a considered that a few days ago I wrote one processing the state of the processing his to wive me, collect, a conform or two montone trialing a young and of my acquaintance, who counts the profession of salessamply beneath his, to think straight. In sugarding the processing the processing the processing a control of the processing a fields other than of professional salessampling the processing a control of the processing and the processing and the processing the proces

Assure ir. Edigon, please, that he can be quest and that full appreciation this welcome any fifteen or trenty or more words that he say limit in his heart to dictate.

Very truly yours

THE CURTIS PUBLISHING COMPANY

Western Moore

Manager of Vocational Division

HWM NRG

Franch to patricin the same supery investige I have found Water way Tight to type care, no in all boys.
The meds of the they are commendational.

The meds of the they are commendational.

There is the contract of the contract

IN THE UNITED STA ESTABLISHED ISSO

A MONTHLY MUSICAL JOURNAL FOR TEACHERS, STUDENTS AND MUSIC LOVERS

THEO PRESSER CO. PUBLISHERS,

1712-1714 CHESTNUT STREET PHILADELPHIA, PA.

Jan. 22nd, 1916

Mr. Thos. A. Edison,

Maxwell -

THE LANGEST CIRCULATION W MUSICAL PERIDDICAL

I realize how extremely busy you have been since the outbreak of the war and since the fire from which you recovered so phenomenally in such a short time and for that reason 1 have delayed writing you again.

This symposium was published month by month and included the opinions of a great many non who would have hesitated to a fact that for any other course, men who lead to be for any other course, men who for in the big purpose of maste, the das need for more music and better music for the people.

envolope, registered, several pages from THE NTURE in in which these provious equipments where been given. I am sure that our restors would be very grateful to you for your opinion which we shall take pleasure in pub-liching as soon as we get it.

We take pleasure in sending you a copy of an editorial of the MTUDE which has been reprinted by private individuals and circulated through a great many thousand copies.

Very cordially.

The/Chem

THE EDITOR OF THE ETUDE

Taims Baver Cooks

[ATTACHMENT/ENCLOSURE]

I annot think of half the things that music does. We music will make a soldier charge a trench more resolutely and a workman do his work more accurately and repridity. We also know that music frequently aids the composure of a nervous periodic that it helps us enjoy our dimers better and susivity may be a strength of the strength of

The greatest need for music, in my opinion, is the need we tongues of all nations. If the theme is not beyond our comprehension and if the composer knows how to express the thought thus be seens to convey we can understand his message, no matter it. All the nation is a convey we can dispersion this message, no matter it. All the matter is a simple of the control o

All music conveys some kind of message. It emissage the very space of human thought and emotions. The rational spirit all interface of a nation are sometimes better that by a simple song that by the commentaries of its historians.

movement which required the crystalizing of public sentiment I should profor an appropriate song to a bushel backet full of speeches.

There is an much in music as we are able to get out of it. Intending to pool music is just as important as reading good books. The more good music we here the more we are able to appreciate music generally. There appears to be a progression of musical taste that occurs in the normal mind if one hears enough music, taste that occurs in the normal mind if one hears enough music. Suppreciate music waverage person seems to music forms of music must expressive average person seems to thoughts and instincts. The continental man riches well a music, the pugmentous man likes musiches, and a large number of Americans like ragitime or its equivalent, because most a large number of marchine in regime. However, if a thick there will develop gradually a desire to the and appreciation will earry alm infinite lengths. I can wall believe that frequent attendance at popular band concerts would

The development of musical culture in young people is, in my opinion, an important duty their parents owe them. The form of mean, necessarily, instruction in singing or performing on some sort of musical instrument. I have known singers and instrumentalists who, to my mind, were greatly lacking in true musical culture. That I mean by developing musical culture in young people is to give them

[ATTACHMENT/ENCLOSURE]

(2)

sufficient opportunity of hearing good music to insure that they will acquire the faculty of appreciating and understanding at least some of the botter kinds of music. In these is that a young person cannot hear too much music. Of course there are some songs which should not be heard and there is some music which, It is also comprehended, is not wholescape, but perental commonding of music is a comparatively simple matter.

THE ETUDE

Music a Human Necessity in Modern Life Not a Needless Accomplishment

Among the many Americans foremost in public life who are taking part in this momentous symposium from month to month are the following:

> EDWARD BOK ANDREW CARNEGIE RUSSELL H. CONWELL DANIEL FROHMAN G. STANLEY HALL

THOMAS EDISON HON, RICHMOND P. HOBSON ELDRIDGE R. JOHNSON DAVID STARR JORDAN JOHN LUTHER LONG

Mr. Bok's Contribution Appeared in April, Mr. Carnegie's Contribution in May, and Dr. Hall's in June.

What Music Should Mean to the Business Man

By Eldridge R. Johnson Elicitor E. Johann, as Problemt of the Victor Talkino Markino Company, has introduced once obscul-material late the massed work of the constraints could in when must be consider to be created in a sortion of interaction. Thomas his indistance has work, of the material, laterparted by the parameter state of the day, we can certain the handwork of adequate the constraints of the day for the constraints of the surface certaints and the surface of adequate the surface of the surface o

CHOCARNE of the true philosophy of life is to receive the specimal of the production INCOLANCE of the tree philosophy of life is a lidinity must be extracted minors sum, but, in our afference, it can be sall that most of my post poor layer and, more early financial varue-proof layers and, more early financial varue-proof layers and, more early financial varue-proof the definite proportion of subhetician mediators that officers proportion of subhetician made layer than louding user definitives and temperaments with cold, my children materials and temperaments with cold, my children materials of the control of the cold of the enough time to go arround we had to go without some after, Kery thing that could not be turned into staterial wealth was pushed to one side or postponed to tlat time which we all book may be provided in the state of the state

when oblamed was not generally immersion in few years also.

Mist'e document appeal to the average lustiness.

Mist'e document appeal to the average lustiness produced in. The musical part of his temperatured has been emisted, dwarfel, almost destroyed, but not entirely so, for every renature on this scarts enjoys some kind of music; but a too sarry bastiness men helieve that they can get along very



























DAVID STARR JOR













BUSSELL H. CONWELL



THE CURTIS PUBLISHING COMPANY

INDEPENDENCE SQUARE PHILADELPHIA



VOCATIONAL DIVISION

February 1, 1916

Mr. Thomas A. Edison

West Orange

Hew Jersey

Dear Mr. Edison:-

request for a bref visit of the continuous with my recent request for a bref visite to an alcomanish. It serves very accorpially the purposes I had in mind in requesting it and I an appreciative. The young man to whom, by later referred is now, on far as his mind is concerned, on his feet. You and Julgo Gary and Er. Tatt and hand the Challesce and a few others helped to put his

he a matter of fact, a man who despises any occupation because he considers it beneath him, no matter against what false standards of culture and of gentility he sansures it, is Legion by name. And you will permit no, please, when opportunity arises, to him for your brief tribute to the particular profession in which i an especially interested a wider hearing than the ears of any one young man one central tributes.

Some of these days, when the right opportunity is at hand, I me going to take your on the right opportunity and send consistent of the result of the result

Yours very truly

THE CURTIS PUBLISHING COMPANY

Manager of Vocational Division

HUM FG

Bress Club of Chicago CITY HALL SQUARE BUILDING 139 N. CLARK STREET

February 7, 1916.

Mr. Thomas A. Edison,

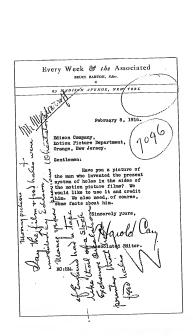
West Orange, N. J.

My Dear Sir:

May I take this opportunity of thanking you for your splendid expression of sympathy upon the recent death of Mr. Thomas Leopold Willson - the inventor of commercial calcium carbide - reproduced in the Acetylene Journal and augmenting to large extent our own notice and biography.

With the issue in which this article appeared I resigned the editorship of the publication, and am now writing the many who have so kindly assisted me during the time I was in the editor's chair - hence this word of appreciation for your courtesy.

Yours very



CLASS OF SERVICE SYMBOL.

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EA BROOKLYN NY 1245P FEB 16-16 T A EDISON 1238-116

ORANGE NJ

THE EDISON BATTERY IS DEFECTIVE IN NAVAL REPORT ON & 2 EXPEGSION PLEASE SENO TO THE EAGLE A STATEMENT IN DEFENSE

BROOKLYN EAGLE

12^{58PM}

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Paul: 116

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NATIONAL MAGAZINE BOSTON, MASS. ENTER ST. OF MITCHELL CHAPPLE 1st Earch, 1916.

Mr. Thomas A. Edison, Orange, New Jersey.

My dear Mr. Edison: -

if you are going to make your trip South, and mether it will be possible for me to see you whon I am in that vicinity about March lith? I would like to have a little chat with you, so am to propare a little chat of the MAIDAM. Seasher, our readers seen to feal lillued if we let six months pass without scending mer about Thomas A. Edison.

I can anxious to know what progress has been made on the "Tolkerthe". I wrote an article about it, and read I can wondering whether it would be available to use in my library, to talk my thoughts into it at a light, and have then recorded for the north enrings showth on only brilliant thoughts that come to me, come in only, or the "wee small" hours of the morning. I have getten into the habit of dictating, and I cannot transcribe these thoughts by pencil the mane as Emercan used to de.

I am anxious to prepare scatthing in the Eaching-

NATIONAL MAGAZINE

Thomas A. Edison

(2)

ten department concerning the work of the Advisory Committee, and would like to see you to get some information about that if possible.

With cordial best wishes, believe me,

Yours sincorely,

J.H.C.

In n To 100

March 8th, 1916.

Mr. Durand:

Mr. Chample is an old friend of Mr. Edison's and he has published a great many articles about him and about our products. It is all to the good.

You will see in the second paragraph in in. Chapple's lotter that he wants to know semething about the Colourite. Will you the that the or write him a nice letter and explain to him so aching us the commercial status and the practical application of the invention as it is at procent. You will find that he will probably have a nice article about it in the Satisfaction.

Kindly say in your lotter that I received his favor of the seventh instant and have caked you to reply to his exections, as it comes in your province.

.. H. MEADOUCHOFT.

******* -

DUSINESS BEFARTHENT THE ENGINEERING MAGAZINE 140-142 NASSAU ST NEW YORK

CABLE ARGOASINEM YORK

March 8, 1916.

Thos. A. Edison, Esq., East Orange, N.J.

My dear Sir:

Prompted by the leaders of the Labor Unions, Congressman Tavenar of Illinois has introduced in the House a bill prohibiting the use of tima studies and the payment of premiums or bonus in cash to the mechanics and employaes in all Covarmont arenals end ship-yards. I enclose a copy of the bill, so that you may know its present provisions, and I understand that the scheme is to prohibit all Govarnment contractors from employing these systems.

Of course you know that the Labor Unions bitterly opposed the introduction of the powar loom, the aswing machine, the locomotiva, the air brake, the type-cetting machine, and in fact every great labor-saving device that has ever been invented -- upon the stupid theory that "it would throw men out of work." This proposed legislation is of a piece with all such ignorant reasoning, and the plan of the labor leaders is to take advantage of this presidential year to force such legislation through Congress.

I presume you know that similar legislation was slipped through, in the closing days of the last Congress, as "a rider" in an Appropriation Bill--Fitzgareld, the Temmany Congressman from New York, who is Chairmen of the Appropriation Committoe, being the man who worked the scheme at the beheat of the labor leaders.

The necessity for exposing and blooking this legislation is so manifest that a COMMITTEE of TEN, representing all the leading engineering sociaties, the National Association of Manufacturera, the National Metal Trade Association, tha Chamber of Commerce of the United States, and many local chambers, has been appointed to take active steps in opposition. Mr. Henry R. Towne has accepted the Chairmenship of this Committee, and I am serving as one of its active members.

As a masns of exposing the movement, I plan to present all the facts in the forthcoming April number of The Engineering Magazine, and Mr. Towne has agreed to give me a very notable leading article upon the subject.

To supplement the facts which Mr. Towne and I shall presant, I sapacially dasire brief expressions of opinion upon the subject from about twenty-five or thirty of the foremost men now in charge of our greatest engineering and mechanical industries --- the aim being to show Congressmen that the industrial leadership of the country is a unit in opposition.

Will you be kind enough, therefore, to write me promptly a brief and pointed letter, stating the objections which you, as a large employer, see to legislation of this damaging character? I want to publish your letter in company with some twentyfive others of like character from the foremost executives and employers in the United States, and I am very sure that such a publication will prove of great practical value in opening the eyes of Congressmen who have given no study to the subject, and hence do not understand it.

TELEPHONE CONNECTION

PRIVATE EXCHANGE
CONNECTING ALL DEPARTMENTS

THE ENGINEERING MAGAZINE

GABLE ARODASI, NEW YORK CHARCHEO, LONGON WESTERN UNION, AI, DIRECTORY AND LIEBERS CODES USED

Thos. A. Edison, Esq. #2

I presume you know how the Labor Unions have dominated Fritish inmunitions. Unless American employers not spak out emphatically on such legislation so the Twommor Bill, we may be sure that the labor lessers and the scheming politicisms will make serious troublefor us.

Very truly yours,

John R Deandaje

Editor and Proprietor.

[ATTACHMENT/ENCLOSURE]

COPY

64th Congress, 1st Session

H. R. 8665

IN THE HOUSE OF REPRESENTATIVES

January 11, 1916

Mr. Tavenner introduced the following bill; which was referred to the Committee oh Labor and ordered to be printed.

To regulate the method of directing the work of Government employees.

Be in enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That it shall be unlawful for any officer, manager, superintendent, foreaan, or other person having charge of the work of any employee of the United States Government to make or cause to be made with a stop watch or other time-measuring device a time study of any job of any much employee between the estarting and completion thereof, or of the morements of any such employee while engaged upon such work. No premiums or bonus or cash reward shall be paid to any employee in addition to his regular wages, except for suggestions resulting in improvement or seconomy in the operation of any Government plant.

SEC. 2. That any violations of the provisions of this Act shall be deemed a misdemeanor and shall be punished by a fine of not more than \$500 or by imprisonment of not more than six months, at the discretion of the court.

[ATTACHMENT/ENCLOSURE]

The bill introduced by Tavenner is in my opinion based on a fallacy of the It is an attempt to prevent Efficiency, so disasterous both to lator and the public The worst enemy of all the workers is inefficiently managed whop and yet the Yabor leaders cannot comprehend the fact probably because it is themking based on mental processes of a primary Charactery There are other was to improve the many ways whereby labor leaders can improve the Conditions by legistation but this is confirme bill of Tavenner is not one of them

JOHN A. RUSH NEWSPAPER CORRESPONDEN ORANGE NEW JERSEY

March 30,1916.

wise I get benell

Mr.Thomas A.Edison.

Ft . Myer .Fla.

Dear Sir:-I amtaking the liberty of writing you to ask if you would care to say a word concerning the New York Herald's attitude toward your inventions and accomplishments in the years past. The Herald will have an anniversary number soon and I was asked to see you. If you have any of your valuable time to spare and can conveniently write a statement for publication I would be extremely obliged to you.

With deep gratitude for your many past favors, and tr usting you will have full measure of enjoyment during the vacation you so richly earned, I remain,

Yours respectfully.

John a. Rush.



no aus

31st March 1916

Mr. Thomas A. Edison Orange, New Jersey

My dear Sir:

We enclose herewith rough galley proof of paragraph prepared by Mr. Chapple Phich is to appear in the April issue of the NATIONAL MAGAZINE.

Very sincercly,

Edua E. Smith

Editorial Department.

00B-W

[ATTACHMENT/ENCLOSURE]

AIONG the eminent witnesses who appeared at the hearing of the Naval
Affairs Committee was Thomas Alva Edison. While many of the
questions had to be repeated to him, his keen-witted responses indicated
the desired of the proposition of house given in the dispussion of general he had not lost an appreciation of humor, even in the discussion of grave ne nau not note an appreciation of humor, even in the discussion of grave problems. His life experience as an inventor led hin to suggest an appro-priation of three million dollnes for a naval experimental laboratory for the use of the advisory board appointed by the Secretary of the Navy. He insisted that the government could not expect results without furnishing equipment and the services of experis, the same as an individual or corporation would furnish in undertaking to solve great problems.

sould furnish in understaking to solve great problems.

"An Ethnow Jano Cave is summed up in the word "concentration."
When he starts out upon what is known as a "en spaigo," it may less four,
sic reliable week or even menths, that the concentrated that the conference of the contract o

New Mornet American

ay 17,1916

Mr Thomas A.Edieon

Dear Mr.Edieon:

(8660)

As you have doubtless read in the newspapers, Dietrict

Attorney Swann, and also the Thompson Committee, contemplate investigating the wholesale "wire-tapping" which has been going on in this city for some years. It has been learned that within two years no less than 350 telephones have been tapped, Legal authorities have told The American that this practice is without warrant of law.Mr.Swann himself says "wire-tapping" is not legal unless possible crime is involved. The "tapping" during the recent Chartties investigation has been widely exposed.

The American requests that you allow a reporter to vieit you, in order to get a statement of your views on the question of this "tapping." As you were so closely allied with the Browth of the telephone to its presenting the tendard, your words would carry much weight. If it is not possible for a reporter to see you personally, could you dictate some statement, that this paper might have.

Thanking you in advance for an answer to this communication, I am

very truly yours Wood

New York American

Kindly address R.C.MoCabe

City Editor

New York American

238 William St.

New York, N.Y.

JOHN A. RUSH NEWSPAPER CORRESPONDENT ORANGE, NEW JERSEY May 18, 1916.

ar. W. H. Mead ower oft ,

Scoretary to Mr. Thomas A. Edison,

"ear Sir: The New York Herald would like to get from 4r. Edison some word on his recent talk with ar. George J. Perkins concerning Colonel Moosevelt's

campaign for the Presidency. Can I see Mr. Edison tomorrow?

I thank you for your many courtesies.

Grat efully yours,

pho a. Rush

I am not with political field a des not want to get in -

PUBLIC LEDGER

INDEPENDENCE SOUARE

PHILADELPHIA

Thomas A. Edison, Esq., West Orange, M.J.

Dear Mr. Edison: -



Mrs. Mary Roberts Finehart, who, as you know, is one of the most popular women writers in the country-if not actually the most popular -- has arranged to report the three nctunity the most popular -- and arranged to report the three national conventions for the Public Ledger Syndicate, and her reports will go into the newspapers representing all shades of political belief throughout the country. She is a warm admirer of you and Er. Roosevelt, and when we closed with her the other or you and Er. ROOSEVELL, and when we closed that her the country, she asked me to write to you requesting that you have set to her at Sawickley, Pa., data relating to the calling of the interioral Progressive Convection, the list of officers and such other ional Progressive Convection, the list of officers and such other detailed information us may be necessary.

Also, in order to represent correctly the attitude of the Progressive leaders to the readers of the nation it is necessary that Ers. Binehart have such antecedent knowledge as may be properly divulged in a confidential way. If favorably disposed, will you not communicate with her direct at her address in Sewickley?

Mrs. Rinehurt would go to West Grange to see you personally were it not for the fact that she has signed a contract to finish her first novel before the convention opens and must work unceasingly upon it. If you should chance to visit pittaburgh before the Convention opens, she would appreciate your telephoning her at Sewickley and arranging for an appointment there.

Ordially and sincerely yours.

No. 18. Brown plane

I absolutely Know nothing of any

Concentrat of the tresquesses of

anything about politicas directly

or interfally of Jama a horomore

that study to his hast

TELEPHONE 400 ORCHARI





Iewish Paily Korward

NEW YORK

May 26, 1916.

Mr. Thomas Edison, Orange, N.J.

Dear Sir:-

Day I well accome

In addressing this letter to you I represent the Yiddish speaking multitudes of America. They are naturally familiar with your glorious name and many of them have read a good deal about your great inventions and contributions to the progress of humanity.

It is my ambition, however, to tell them a little more about yourself and you would onfer an inestimable honor and fuvor if you would make an appointment to meet me for a personal interview.

Any place and time you may name will be thankfully accepted by

Yours respectfully, Sakan

Editor of JEWISH DAILY FORWARD

AC/CG (8833

May 29th. 1916.

Hr. Abraham Cahan, Editor, Jewish Baily Forward, Forward Building, Hew York City.

Dear Sir:

Your favor of the 26th instant to Ur. Elison has been received and submitted to him. He requests no to say that he will see you any day at the Laboratory.

I would suggest that you call me up in advance of your coming, and then I shall be able to tell you if he will surely be here.

Yours very truly,

Assistant to Mr. Edison.

WIIO'S WIIO IN NEW YORK

COLTOR

1.3

June 12, 1916.

Mr. Thomas Alva Edison, Orange, N. J.

Dear Mr. Edison: -

In bringing out the 7th Edition of "Who's Who in New York" we must again ask your co-operation in order to secure accuracy.

Your biography herewith enclosed is now three years old. The information therein contained undoubtedly needs revision and we should be grateful to you if you will look it over and make such changes as you think necessary.

We aim to present in as few words as possible a blographical sketch of our important citizens. This collection has had in the past a real value as a book of reference and unquestionably this value increases with each edition.

By supplying this information you incur no obligation to become a subscriber and you will not be approached by solicitors.

This is a limited edition and no reprints will be made. Therefore if you desire to subscribe, the early receipt of your order on the enclosed form will assure you a copy.

Sincerely yours,

Nerwaul Knox

HWK-T

1

[ATTACHMENT/ENCLOSURE]

FILE NO.

WE ATTACH BELOW CLIFFING FROM THE 1914 EDITION OF "WHO'S WHO IN NEW YORK."
THE 1917 EDITION WILL GO TO PRESS SHORTLY. IN OPDER THAT YOUR BIOGRAPH.
ICAL SKETCH MAY BE UP-TO-OATE, WILL YOU KINGLY MAKE SUCH CORRECTIONS AND
ADDITIONS AS MY SEEM NECESSARY AND RETURN IMMEDIATELY.

BEDION, THOMAS ALVA

Restricted, between ft, allian, flave from the little production of the control of the con

WHO'S WHO PUBLICATIONS, INC.

PLEASE ENTER MY SUBSCRIPTION FOR ______COPIES OF THE 1917 EDITION OF "WHO'S WHO IN NEW YORK", AT \$10.00 PER COPY.

I ENGLOSE CHECK FOR \$ IN PAYMENT FOR SAME.

I WILL REMIT ON DELIVERY.

NAME .

ADDRESS...

......

Return to with

Wildman Magazine Service

118 EAST 28TH STREET NEW YORK.

Mr. William H. Meadoworeft, o/o Thomas A. Edison, Orange, N.J.

Desr Mr . Meadoworoft:

Do you think that I could get Mr. Edison to autograph one of his photograph for me to add to my collection! If you think that he would be co kind ast to do this and will tell me where I can get the best photograph, I shall send it down to you.

Very sincerely yours,

Farmed Comother

Samuel Crowther/C.

Mr. Equience Menser of a construction of the Menser of the

Mr Edward & guess it would be best for simply autograph this .

Margaring

Elisan, T.A - Persmal



EDITORIAL ROOMS Pulltzer Building, Park Row, N. Y

220)

Hew York, June 21, 1916.

hos. A. Edison,

Orenge, New Jersey: write it

Dear Mr. Edison,

The Torld wishes to thank you for the interest you have shown to the Statue of Liberty Illumination Pund, and for your contribution.

Hey me not ask you to write us a short statement for publication giving your approval of the coresent? The following suggestion wight be of some use in writing this statement:

"I consider it an honor to contribute my donestion to the Statue of Lib ray Illumination Tune. Every American should rolly to the support of such a petrictic movement. Liberty enshrouted in derivance every might can never be the inapiration she should be. I cernestly hope that every success fill attend the Torld's competing for the \$40,000 fund."

very truly yours,

Earl Harding.

AYLSWORTH

The men who dig and celve into the mysteries of science must make many sacrifices in exchange for the great privalege. But no man who does not love the work will dig and delve at it, and thus the reward of most investigators comes much as come the satisfactions of a mother's love, not in material returns but in sentimental gains. Again, who knows so well as the successful investigative scientist the glowing pride which only can crise from having definitely added to the sum of the world's knowledge?

It must seem, for these and other reasons, that Jones Walter Aylsworth, who died recently in his New Jersey home, the bed on which he passed away situate not far from the little laboratory of big results wherein he worked his wonders, must have lived a fuller, gladder life than most men.

For he had not lived and worked, he had not delved and dug in vain. Few men's memories have been honored by the grief of more associates known widely in the world of science than now genuinely mourn his passing.

This is to be no set and stolld biographical account of Aylaworth. It has no ambition other than to give to those who care to read it some impressions of the men gathered by a layman in conversation with a group of friends who knew and loved him. It is the Edison group which talked of him to me -- such

2 Aylsowrth

men as the great inventor, himself, Meadowcroft and Hutchison.

I wish I might feel certain that when I pass along three men
as able and as qualified to judge will speak as well of ms!

Aylaworth was bom in the last days of December, 1868, and died June 7th, of this year, 1916, midway between his forty-escenth and forty-eighth birthday. Not very frequently do we encounter records of so few years which have been so full. His was not a ripe old egs, but an amazingly large proportion of its moments were productive. The world owes much to the mere fact that Aylaworth lived.

Like thousands of successful Americans he had to struggle hard for all his priveleges of production. Thirsting for knowledge he did not grudge the price of effort which it cost.

No silver-spoon was in his mouth when he was born, no velvet fingered Pate smoothed obstacles from his life's path in youth or early monhood. But struggling never meant discouragement to him. A set-back, now and then, ever tended to smoot him with new attempth, mental and psychological, as physical exercise developes human musclex.

Attice, Indiane, was his birth-place, and he went to school there, finding in the high-school course sound preparation for his later work in Perdue University, that small, "free-water" institution, which has produced so many really celebrated Americans, including many-members of our most eminent modern lit-

erary group.

Notewan-his early search for knowledge was without-itsdisappointments. A year ofter is begg, his college education
was brought to and end by the death of his father, which neccentitated the commencement of the youngter's work at breadwinning. And, perhaps, as often proves to be the case, withining, and perhaps, as often proves to be the case,
withining, and perhaps, as often proves to be the case,
withining, and perhaps, as often proves to be the case,
withining, and perhaps, as often proves to be the case,
withining, and perhaps, as often proves to be the case,
within the real operation of his college kife at just that time thrust him abruntly face to
face, with the real opportunity which he-advantaged-of-to-his own
benefit and that of all the world, making him femous at an age
much less than that at which most men begin to fashion a success
at all worth while. It seems to have been the mere chance of
necessity which thrust Atlaworth into electricity. But who

For three years he worked with the greatest of the world's inventors at the Edison Chemical Laboratory, and during every moment of that period he increased the worthiness of the record he was doomed to finish all too soon.

Thom the very start everyone in the intense establishment was very fond of him, and, better, everyone respected him, which was far more impressive, for to gain respect from men like Edison and those around him one must be en actual producer.

Aylsworth was a born experimenter. Exceedingly quiet,
very unassuming, continually thoughtful, he achieved trady won-

derful results with out sensationalism. From the very start it. was quite evident that he never would be a boaster. It is probable that he would have gained through some additional self-appreciation. But no man could have a better fault than that...

His working methods were peculiarly his own. Sometimes, even to those who knew him best, and who were most familiar with the problems which confronted him, it seemed that he was laboring along lines certain to be fruitless, but his splendid record, which now is being totalled up, as records are, after those who make them have passed on, shows that this occurred less frequently with Aylsworth then with most men.

The reason for this frequent wrong impression is not far to seek and in it lies the evidence of one of his unique characteristics. Not infrequently he aimed for the purely negative during long periods of experimentation, and the ability to-do-this is as valuable as it is unusual. These brains are very rare which permit their owners to strive constantly for the periods to disprove the usefulness of an idea or material, in-a-taak which must be done. The process of elimination, highly valuable as it is, is the most tiresome and discouraging of scientific processes. In conversation but a few days after Mr. Aylsworth's death Mr. Edsion remarked:

"An experienced explorer may select a path, when he seeks to climb a mountain, the choice of which will much astonish a mere injusts omateur. He may takens that which seems to lead
him downward and around, rather then upward and across, where
he desires to go, for it very well may be of vital value to
him to discover what roads to not go to the top. That knowledge
more than anything other, will guard him end his successors
from mistakes in future Pursuit of what, to the inexpert eye,
may seem to be a hopeless route, may lead to the discovery of a
short cut. The explorer who proceeds successfully in this way
may be said to have the instinct of the searcher's task. Mr.
Aylsworth was one of the truly great explorers inxidiant of new
land in the world of national experiment, and his success was largely due to this unusual quality.

*Ey following the methods which with him were habitual, that is, by examining every phase, not merely those which seemed most likely to lead to quick solution of the problem which he had in mind, he secured himself equinst eventual failure when success was mear at hand -- an experience which most investigators know, now and then, to their infinite distress.

"In going from the bottom of the mountain, from A to B, he learned not only every path which led there, but learned every path which did not. In passing on from B to C he worked in the same way, and was us thorough in his study of the higher reaches intervening before reaching D. Thus, when he had finished, and stood triumphantly upon the summit, he not only knew just

how to get there, but he knew white as well how not to get there. Knowing the perits of the right paths he also knew the dangers of the wrong ones. He not only was equipped with knowledge which assured success, but he was equipped with knowledge which safeguarded him against disaster in the future. When Aylsworth once accomplished a result he always could duplicate it en indefinite number of times, and always could do this by along the lines of really least resistance. Thus, then I gare the force of the state of the sta

His work as an experimenter in the Edison Laboratory occupied is nine years. At the end of that period he begun work for himself, continuing his brilliant record, but, presently, hardicapped by kidney trouble.

Ten years ago he rejoined the Edison forces, first recuperating for a period at Mr. Edison's own place in Florida. "Go down there", said the great inventor, "and live on a milk diet. That will fix you up".

Unquestionably this procedure did prolong the life of Mr.

Aylsworth, but after the first break-down it was necessary

Queen a litter the first break-down it was necessary
that he should exercise the greatest care, the was compelled
to abundon his nestion as eas active works, in the discovery
and other forces, although he-reteined his Edison-comection
when forces, although he-reteined his Edison-comection
in a consulting capacity, establishing altitle laboratory back
of his home at Glen Ridge. In that tiny place he did much

work of very real importance.

Mylsowrth -

There me three things which Mr Ayltworth never learned to do -- he never learned to moke excessively and he never learned how to speak ill of anyone. The first two conservations lost him no real friends and the less seased made him nemy. Indeed it may be said that this perfectly developed quality was notably responsible for the fact that he was universally beloved by those who knew him.

There have been few/men with whom Mr. Edison has been able to work more successfully or with creater personal pleasure from the close contact which co-work brings about between two men.

Whenever Mr. Edison found himself confronted by a task involving chemistry in a high degree and requiring the pttention of a directing mind for each one of the twenty-four hors, he was rather sure to send for Mr. Aylsworth, Then Mr. Aylsworth's services were of truly great importance, for he, too, could do with comparatively little sleep. (an-ability for which Mr. Edison is famous) and this permitted him to watch events with a minute and perfect understanding . While Mr. Edison snatched what slight rest, he grants himself on such occasions, at the same arilanare belled time halping in many other definite ways. For example, while was easiging on Mr. Edison, himself, conducted the principle investigations, accomplished much through his ability or as Exp to \$190 Mr. Aylsworth frequently explered side lines, being ready, when Mr. Edison required it, with absolutely authentic data

Ayleworth

upon which Mr. Edison not only could proceed but frag upon which
he frequently could base final conclusions. It is doubtful if
two men ever worked together more harmoniously in chemical experimentation than did these two.

Miller Reese Nutchison paid the a little tribute at the Edison Laboratory in a conversation which occurred a day or two after he his death was reorded. Said Mr. Hutchison:

"I became acquainted with him in 1901, said Mr. Hutchisen when I was at work for Mr. Edison upon the acousticon, an instrument designed to aid the deaf. Mr. Edison was very busy and when I went to him doe information about carbon he referred This while seiesthat Co great me to Mr. Aylsworth. I was anazed by the minuteness of his knowledge and scarcely less so by his willingness to help me. I believe he felt, in helping mem (and many others who went to along Bears, y dires him, as I did, after exactly accurate information) that in helping me he helped the cause of science. Taxxx The consciousness that he was doing that was very often quite enough reward du lin hant o for excessively hard and perfect works. But by this I do not mean to indicate that he ever was unready to help anyone, no matter what their difficulty might be. The mere fact that anytorestive his been the my the one was troubled, or even seriously puzzled, was enough, for causeco Aylsworth, when he found it out Forthwith he would drop his own work, quite regardless, even though he might never have set . before the man for whom he did the service. To Jonas Walt

Aylsworth, in an extruordinary decree, service was its on reward. That which wade him while most joyf lly was the consciousness that he had made another salls. During the four or live years of our close association I found him truly wonderful*.

"He was one of the finest characters I ever came in conA. (Lift(, (, (, k I))) when the content with", said-Mr. Edison,
Met only was he a fine experimenter, but he was intellectually lofty and absolutely honest. I verture to represent that all these qualities made him one of the best empirical experimenters I ever have known, and he was as hard working as he was able. For years he worked eighteen hours a day.

"During the last few years, when his laboratory was behind to the fact encabled him to devote more hours than ever to experimentation and these hours were fruitful. Among other of their achievments was the discovery of a process for the making of Condensite, and a company now is in existence which purposes to supply this product to many industries.

"He also perfected and commercialized chlorinate hydrocarbon waxes."

Here Mr. Edison are an interesting sidelight upon the character of this great chamist and on the characteristics necessary to success in many scientific fields.

"Aylsworth worked with me for years", said he, "upon the

(- 2 Figgs of 1 July 3 Bull (July -)

task of perfecting my alkaline storage battery. There are so many splendid things to record about this man that it is not unfair to state, in this connection, that here he found it quite impossible to keep on with the job because of the continuous disappointments. Perseverence through an indefinite period, marked by the use of every method which excinarily had brought. in other Tre May success, yet without the slightest sign of winning, was too much for him. It dashed his spitrits and impaired his working capacity. It was this that made it neccessary for him to quit. But he didn't seek a task involving slighter effort. It was not hard work that halled him, it was work which seemed to be entirely hopeless. It as after this experience that he took up and carried through to a sinccessful conclusion his experiments with Condensite. In considering this episode it must be remembered, also, that Aylesworth's wirenzingsmentaxz xxx waxx never great enough to force his body into keeping step with his alert, ambitious mind. It was more his minds body than his mind which balked at months of utterly resultless labor. This made it impossible for him to take my point of view that when a chemical experimenter gets where there is absolutely not the slightest hope he has struck that spot at which things are absolutely sure to happen.

"Ha Like all men who delve into the mysteries of chemistry, as he did, he met with xxxxix many accidents, chiefly of an explosive nature. He was as quiet after an explosion as he was before one of those opisodes to which the standard and the superimenters are subject, poor Aylesworth was and in and I was pretty well hanged up. We had been working with tenders Acrolin and, while I had only reached the tennestage, he really had had a close call, being at the far end of the laboratory that I was near the door at the time the glycerine caught fire in the still, and 30,00 at a successful tanking and the far end of the laboratory. The financial for the time the glycerine caught fire in the still, and 30,00 at a successful tanking and the fire financial for the fire financial financial for the fire financial for the fire financial for the fire financial for the fire financial financial financial financial for the fire financial financi

occurrence.

The seemed to be embirely free from all objectionable characteristics, and he had as many-admirable ones as any man I ever knew. He was not concleted, he was not jealous, he was strictly truthful. He was a Man. His was a sporadic case of entire decency. They don't hoppen very often. He left behind a lit le monty but not much. Such a man never can hope to cope with average, latter-day commercial conditions. But if he left behind him but a little money, he left behind him a great fortune in the respect and admiration of his fellow men.

for-him but he took it as quietly as if it had been an everyday

He was one of Mr. Edison's assistants in the experiments which led to the perfection of the Fluoroscope. Almost every possible combination of available chemicals had been tried, each being kept in a small, fine-necked bottle. Finally Zr.

Edison jumped up with joy, one worked so well. But than came a shock. When he looked closely at the bottle to see just what Whick L. Kab Mine etc. ()

it was it developed that the label had been inxt too much the label had been in the label blurred, to make it possible to read it. But this did not phase Aylsworth. He began his habitual work of elimination and soon identified the contents of the labelless bottle."

(i.e. 4) His first work at the Edison Laboratory was in connection with the carbon filament for electric lamps. At that time ban-boo was being used. Mr. krismanth Aylsworth performed for Mr. Edison many of the experiments leading to improved carbonization, and, later, to the squirted filament.

He then began the manufacture of filaments, working for

himself. He was much caused by the gossip of the neighborhood

the patterny literan ker file

whitch saw great quartities of material going to the little fac
tony and noted that the daily product was taken from the

sental backet.

He was also concerned with the development of the molded phonographic record. Previously singers and musicians had

performed to the phonograph, or to gangs of phonographs, direct, and the direct records of their wok had been sold to the public therefore the property of the contract of the public through the contract of the public through the contract of the ganthat through the contract of the contr

The molded phonographic record, which permits the reproduction for an indefinite number of times, of the first, or master record, has marked a great advance.

Aylaworth frequently had much quiet fun out of the effect of scientific mysteries on the lay mind. When the fluoroscope was first perfected a good deal of amazement was expressed at the laboratory when a key was shown through a thick Bible, but presently Aylsworth produced a box, and, to the astonishment of the observers who applied the fluoroscope to it, its revealed contents walked about. It was uncanny. No-one guessed at it was. It was a kitten, but, of course, nothing but its skeleton was visinle through the fluoroscope. Monday (1) (1) the perfection greater when one ofthe tor was the perfection of Condensite, which is one of the mater-Externade ials used for the production of the Edison phonographic records Also. and which is extensively used in electric insulation, especially on large transformers, where it has proved to be themost perfect of insulating materials, will cales Knacht

In his youth the marvels of the chemist's art impressed

Continent to the the man a forming Cofficient interest.

Which the man a forming Cofficient interest.

Which would turn black under gas. He figured out a means by

Authoritation.

Which this property could be used in the performance of a stage

trick which he felt with a married mystify the public. The magic
ian, exhibiting to the audience a perfect ly white man or boy,

would be able, he assumed, to wave a wand and apparently make

the white man turn into a negro. The wand, of course, would

like the course of the course, would

like the course of the course of the course, would

like the course of the course of the course, would

like the course of the course o

the prepared skin surface.

He made an appointment with Herman, the magician, and control of the control of t

It was arranged before hand that his companion (Mr. Meadowfect a fray in factor? "Minister" by
croth, of the Edison forces) was to rub the preparation on
his hand, after they had come into the resence of the great
magician and were ready for the demonstration. The hand at
who The influence by Maries,
once would turn coal black, Herman would be assured and delighted and the fortunes of both aspiring geniuses, would be
immediately mades.

It didnot work out very wall, however, for the beg, when pressed, is editable burst and filled the theatre with any indescribably vile odor which every effort could not get-entirely action to the history before the evening performance. Autocol &

Aylsworth immediately disappeared and then his companies, getting to the street at a speed a little less than his, looked about for him he could not find him. Angry the disconfited assistance at the great transformation trick started for the ferry. Presently he saw a figure sitting weakly on a curbstone laughing white.

"DAILY CHRONICLE" LONDON "LLOYDS WEEKLY NEWS"

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And Thomas Alexandren,

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continue to a figure of the Configure is now have not already and figure to the configuration of the configuration and described of the configuration and described.

I shall be exciling on the morning of the rath me in the meaning publication to our locate of the lith which me now will remember 12 the H than I buy of the Republic.

You - very mineerely.

leng Batumun

Memorandum from George French, New York. Sheet No.

Glen Ridge, N. J. July 17, 1916

Dear Mr. Edicon

My friend, the editor of the Decigner, is having prepared interviewe with a number of notable men, such as Mr. Vail, Mr. Vanderlip, touching upon the problems of the young.

The Designer is one of the Butterick journals with an enormous circulation, growing more and more enormous all the time. The editor wishes to interest men in it.

I have written scaething which I wish you would read, and if I have sensed your ideas rightly authorize me to send it in for publication. Nake such charges as you desire. Or if it is not to your litting, let me know that.

I hope you will indulge ue in thie; and I am

Very truly yours

(160)

Mr. Thomas A. Edison West Orange, N. J. Jan Jacob Mander of the free free of the second of the sec

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HARRY SHAW, Editor and Menoger



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241

Lay these press no

no such invention

Thomas Edison Laboratory, Orange, N. J. Dear Sir:

Mr. Meadowouff

Attention - Superintendent.

There has been brought to our attention recently several press rotices concerning a new and late invention under the direction of Thomas Edison for a substitute for galoline to cost . A approximately 50 per gallon.

I would appreciate your furnishing ms an authentic report to the same which might afford our publishing in verbatim in our Gotober issue and special convention issue of the Oil News.

Thanking you for any news that you may give me, and trusting that I may have the pleasure of an early reply, we are

Yours very truly,

gauphor Him Assistant News

report? august meudowoop

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36. and over 200 American News-papers and Magazines, lucluding: Vogno Outlng

Hew York, Sept. 14, 1916.

Tr. Thos. A. Orange, N. J.

Pear Sir .-Utlen Globe Pair Post

Under date of July 27th, we were advised you

might be willing to allow our photographer a few minutes to make some photographs of you for publication in our papers when you had returned from your camping trip.

If you can allow us this privilege we shall appreciate it and shall be glad to send our Wr. Fredericks at any time you will name. The Editor of Collier's Weekly is after us to get these pictures for use in Collier's and we have other demands for them.

> Yours very truly, Press litestrating Service, Inc.

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September 18th.1916.

Press Illustrating Service, Inc., 142 Next Serd Street, new fork City.

Gentlemen:

Your favor of the 14th instant has been received. In Edicon Emergen to accentage to the offermeon to attend a moding of the meval consulting Board, and withou us to cay that after his return he will give your photographer of few minutes as requested. By thinks it would be well now to leave it until now toon.

at the seginning of next week, you might communicate with me.

Yours very truly,

Assistant to Hr. adicon.

Wangemann

Chicago, Sept. 14, 1916.

Wangerman went to Germany Mr. Thos. A. Edison Orange, N.J.

Orange, F.J. 4 did corresponds him a harge number of discovered which he played for Removed I have been asked to contribute an article for a maioral craftche determined as Oracland at the first experiments and fat a perfaining thereto.

te a recident violin soloist in Beston some 30 years ago, I played into a phonograf at the request of your agent - Mr. Wangemann - and the music I played was part of the unaccompanied Chaconne by Bach .. It was intended that the record should be reproduced at the World's Exhibition in Paris and also be brought to Germany for Biemarck's attention - so the agent told me. I don't recall that this was ever done, but as the first phonograf trials (for the violin) is of importance in my article I should greatly appreciate any details as officially recorded by you on this subject.

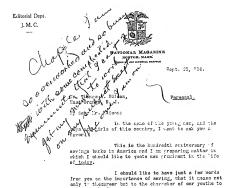
With every ascurance of my highest esteem, I am

Yours sincerely -

Beanhourd Listemann.

611 Fullerton Parkway, - Chicago, Ill.

362



practice thrift.

Does 50 or 60 words or less, will ensure the just one of the process of the pr

do for a men. What saving did for you.

Could you send this for me in the coveres of the next week if yossible? With cordial best wishes, believe we,

Years sincerely,

for autolice Deply.

RICE R. SWETLING
PROCEED TO STREET AND SERVING MANAGER

TO STR

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Wig only weed the Homer electo trucks for the first from the Blood Suggest New What druck was well on the or and the surface of the country on the bound of the country of the blood of the country of the blood of the country of the

Attention Mr. Meadowero.rt, General Manager Edison Companies

Gentlemen:-

We have in our possession a photograph of the Krobs truck used to carry the supplies of Hr. Elison on his trip to the Adirondacks with President Firestone of the Firestone Rubber Co., Henry Ford and John Burroughs.

we small thus to publish this picture provided you could be no kind as to give us a chort general cuttine of the trip and its purpose and more particular information requaring the cuttine of the truck including its route, the mileage covered, the time communed and any other insidents regarding the vehicle during the trip. We are

Yours very truly,

THE COMMERCIAL VEHICLE

Associato Editor.

JHusson/SC

(5b0)

DALE CARNAGEY STUDIO 824 CARNEGIE HALL NEW YORK gue arei

Sept. 29, 1916

Mr. Thomas Edison, Orange, N.J.

Sirt

If you had only forty-eight hours more to live, how would you spend them?

The Illustrated Sunday Magazine is asking a few proximent persons to answer that question for their two and a half million readers.

We should be delighted to have you answer this in any mood you desire-- humorous, serious or gay. Very truly yours,

DC-P

Delamagy.



14541

CIRCCTING EDITOR

October 4, 1916.

The Edison Storage Battery Co., Orange, N.J.,

Attention Mr. Wm. Meadowcroft

Gentlemen:-

and note that you state that the Earvester Co. 's truck was used for the first two days or the trip only, and the (the White truck was used thoreafter.

to be a Krebs motor truck. When my krebs fruck used? We had no knowledge that a White truck was used, and would be pleased therefore if you could furnish us with any information, olipping or other data which would due as accombing about the part of the which would due to a complete the property of the work of the part of the work of the work. We are the work. We are the work. We are

Yours very truly,

THE COMMERCIAL VEHICLE

Annoista Editor

JH: JM

1 (670

MORNING

THE



BALTIMORE, MD. Detober 6,1916 Mr. Homes a. Edisa. Great Brange, Rg.

Dear Sir :--

The following inquiry has been referred to the "Answers" Column of Werening, Clus:

her was the first motion

If you can furnish this information, I shall appreciate it very much.

Gratefully yours,

ESTABLISHED 1000

ERT W. SPANGLER, Publisher



THE NEW WEST MAGAZINE

BRANCHES

"OUT DING THE WEST 1211 WALKER BANK BUILDING SALT LAKE CITY, UTAH

October 9, 1916

Thomas A. Edison East Orange, New Jersey

In cooperation with the Society for Electrical Development we are issuing a special number of The New West Magazine announcing the event in the West-officially.

We are sending a letter similar to the attached garbon to the presidents of eleven state faderations of woman's claws to the president of the oneral Pederation of Women's clubs, and to the governors of the fleven western states, asking their sndorsement of

the Wesk. You will note in the latter part of the letter to the club women we are asking them "to honor Edison in some way for his

inventions." Inasmuch as several thousand of the club women visited your homs last Spring during the Biennial, and as this magazine is the Western exponent of the olub-women, we will much appraciate the favor if you will send us a photograph of Mrs. Edison and also of your home, and any other pictures you think will interest theomen of the country.

If you cars to say a few words to them, we will be very glad to publish your message--and it will be most effective in arousing them to the observance of America's Electrical Week.

We are sending you a copy of The New West Magazine for December, 1915, which quotes you on page 36, also a recent number of the magazine.

Very truly

mrs. marcha Spangler Western Club Woman Department The New West Magazine Editor

[ATTACHMENT/ENCLOSURE]

Getober 7, 1/16

Bro. H.a. Corgan President Add C Willcox, Arizona

Lear Fra. Forgan:

2 to 9, and it will be observed acceptant and a will be observed acceptant that of the standard and you will recember how belonging that one, trendent how wildenground that one, free identification in the observed in the standard and the standard and the standard and the standard and the standard over the standard and the standard over the

The Josephy for Alestrical Levelo-ment, with headquarters at low York, is directing the celebration, and it has arranged with five national magazines to issue opecial editions announcing the Lock. These publications are: Collier's Leolie's, Jeientific American, Scribner's and The New -ent Pagazine.

The first four are New York publications, leaving the Lew West Lagazine alone in the western field.

The matern journals will issue their special masters just prior the week of the cellotration, while the few few I tagazine will make the announcement in the jovember number, which will appear wheat the weeks before the orest. This puts no flow cell exquarie TEE in the field, so that the Yest will have the honor of making the II. Official no descent.

As the west is the hope of big electrical development—the country where the BM things we done-we want to make this number truly representative and a credit to the West.

The Boolety for Blottrian Leveloyment has given the New Bout Lagzine the privilege of reproducing the CL,000 prize poster is color on the front cover, while the articles, stories and illustrations will be in galy on things electrical.

We are anking the presidents of the state federations of voten's clubs west of the Bocky mounthing to send us a letter voicing thir approval of America's Electrical Week. Ers. Josiah Avans Cowles, president of the General Federation of Women's Clubs, is also asked to give her endorcement. The governors of these eleven states are asked to give their official recognition. Those letters, with pictures of the writers, will be published in the Eovember musher of The Now Test lagazine.

Will you send us a letter along these lines, mailing it not later than Cetober 15. Also send a photograph of yourself.

[ATTACHMENT/ENCLOSURE]

Mrs. HAMorgan--2

We have asked the Society for Electrical Mevelopment to send you the "Story of the Week," which tells about Electrical Prosperity week last year, and also contains President Wilson's letter of endergement.

Will you ask your clubs to include some observance of the Week in their program on the dates mentioned? Ask them to honor Edison in some way for his electrical inventious.

We are sending you under separate cover a copy of the December musper of The New West Engazine, which tells about Blootrical Prosperity Week last year. Your especial attention is called to page 36 where Edison is quoted.

for the club progra: it is suggested that they sight have a talk on electricity by the manager of the local power company, telling what electricity has done for the farm and home. Electric discover electric discovers and electric dances may also be featured.

be will also appreciate the favor if you will send us a copy of your year book for our files.

Thanking you for your cooperation, I am

Sincerely

Editor Western Club Woman Lepartment The New West Eagazine

200 F TO

G. R. WESTON

THE GOVERNMENT CLERK PUBLISHING CO.

723 TENTH STREET NORTHWEST

WASHINGTON, D. C.

October 12: 1916.

Mr. Thomas Edison. Orango, New Jersoy. Dayla of would be out L place donne to conice

My dear Mr. Edison:

wy dear Mr. Edison:

No doubt you are awar that the government service in Washington is clogged with a large number of supernunuted employes who are really unable to do efficient work and are holding their positions through political influence or through the kindness of their superior officers. The time has arrived when something must be done to alleviate this condition, as the employing officers The time has arrived when something must be are unable to obtain satisfactory results with this "dead wood" on their hands.

Since the argument has been used by congressmen that the folks "back home" are opposed to any retirement measure effecting government employes, may I ask you to state in writing your opinion on this subject. I have already heard from a large number of prominent men throughout the country, and without exception, they agree that it would be a country. that it would be an oconomic proposition for the government to put those aged employes on a small service annuity - simply enough to keep the wolf from the door.

I shall anticipate the pleasure of an early reply from you on this subject.

Yours vory truly.

October 13, 1916.

Mr. Charlos L. Price, President, Electrical Review and Western Electrician, 13 Park Row, New York City.

My dear Mr. Price:

To accordance with our telephone conversation this morning. I em enclosing you a brief interview with ir. Edison, which I trust will be satisfactory for your purpose.

> With kindest regards, I remain, Yours very truly,

[ATTACHMENT/ENCLOSURE]

Biostricia called on the Electrical Review and testorn was undered into the Chemical Laboratory whose he forms can where the he Chemical Laboratory whose he found him beatly emograd in the maripulation of various chemical exportments. Baleon locked hale and hearty and was moving about in the alertness of a young man.

After a cordial greeting Mr. Edison extended a dyosteined hand to the visitor, who offered his congretulations
on the forthcoming thirty-coventh Anniversary of the birth of
the Incandescent larm, and acked him if he found any time normaly
to work on large. "No, said %: Edison, it as a Chemist nor.
Ever since the beginning of the Var, I have been trying to help
out American industries by furnishing some character is to be the
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with the chemistry and technique to the character is together
and a few other type track of the growth of the incendencent
lamp buthness, which through the energize of the bunch of livewires connected with it has grown to be simply mervelous."

lir. Mainon was caked that further developmentations outlet forces an the inconteneous lamp. He readed "En-"to to hard here a mut for me to crack off-hand, but f." while the ond of his development is in adject yet, art, would not be supprised to see a hundred or more standard lamps to the librore-power brought out yet."

on many more Amitweenies of October Elst, to which he replied, "I am expecting to see fifthen or trenty more at any relo, and hope a lot of the 'old boys' will twill along. Give them my recod wishor.

ESTABLISHED 1919

ROBERT W. SPANGLER, Publisher



THE NEW WEST MAGAZINE

BRANCHES: New Yorks 347 Effit Avenue Chicagos 360 Peoples Gas Building Portlands 449 Lumber Enthunge Building Bellets 443 Emples Building 1211 WALKER BANK BUILDING SALT LAKE CITY, UTAH Six Years in the Intermountain Country

October 18, 1916

Mr. Thomas A. Edison Orange, New Jersey

Dear Sir:

Attached is copy of the resolution passed last week by the Idaho State Federation of Women a clubs, in re America's Electrical Week, in which your name is especially mentioned.

The same resolution will be introduced this week at the Utah Federation meeting.

We are also enclosing proof of the November cover of The New West Magazine.

Would also call your attention to our letter of October 9, in which we asked for a picture of Mrs. Hison and your home, for publication in this number, together with a few words of greating from you to the club women of the West. If you have not already lacked after this, will you do so as early as possible. We must go to press in October.

It may interest you further to know that the Idaho Federation met in Bert Perrine's home town, Twin Falls.

Very truly

The New West Marketine

RWS/S

[ATTACHMENT/ENCLOSURE]

Idaho Club Women Endorse America's Electrical Week

At the sixth biennial meeting of the Idaho State Federation of Women's Clubs held at Twin Falls October 10th to 14th, the following resolution was unanimously adopted:

A RESOLUTION

Be it resolved: That, Whereas, a nation-wide celebration of America's Electrical Week has been set for December 2 to 9, 1916, in which all the people of the United States are asked to participate, and

Whereas, Electricity is bettering life in all its complexities by reducing toil, thereby raising men and women to a higher sphere of activity, and

Whereas, the West is the home of big electrical development--where the greatest progress has been made, and

Whereas, Electricity has done so much to lighten the labor of women, now, therefore

Women's Clubs, in convention assembled, do hereby set saids the week of December 2 to 9, 1916, for the observance once manner of America's Electrical Week, and we urge upon the members of the Pedaration that they participate by a carraging their olub programs that week to include Electricity as one of the subjects to be considered, and pay tribute to Themse A. Editor.

The Idaho State Pederation of Women's Clubs has a membership of 75 clubs with a total of about 6,000 members.

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Unroars Havar

Shiladolphia North American

The Edison Laboratory. Orange, N. J.

Dear Sirs .-

jou can do for us.

Do you think it would be possible for Mr. Edison

to give us a minute or two at this time to permit our photographer to make a few photographs of him in accordance with our recent request?

We shall be greatly indebted to you for anything

Yours very truly,

Press Illustrating Service, Inc.

Mr. Edison and and ban day harrienter measurement?

II. W. SIERICUS, Pres

Areas Illustrating Service, Juc. PHOTOGRAPHS FOR PUBLICATION

Offices and Studio: 142 WEST 23rd STREET NAME YOUR

JAY, W. PREDRICKS



DRY GOODS ECONOMIST

231 WEST THIRTY-NINTH STREET

NEW YORK.

PLEASE REFER YOUR REPLY

October 20th, 1916.

Maxwell-

Mr. Moore, c/o Edison Co., West Orange, N. J.

Day Troil Dec War

My dear Mr. Moore:-

You will no doubt be surprised to hear from me, but our pleasent acquaintance on board the boat coming from Portland was pleasant soqualitization to board this open coming from Portinina was so interesting, I cincerely trust that I may have the pleasure of meeting you again, as you already know I sa very much interested in the phonographs and talking machines that your occupant is Tweell be here the day he a producing.

I wonder if you sould help me to get an interview with Mr. Thoe. A. Edison. I consider Mr. Edison one of the most wonderful men of the age, and I would like to have the honor of a personal interview with him. Not that I wish this interview for publication, but merely as a personal item and to know someth of the workings of his new inventions in the talking machine and I would also like to bring to your attention the work that the Dry Goods Economists to doing to help the phonograph and record trade in our particular field, the dry goods and department etoree.

I am sending you under separate cover a copy of the Dry Goods Economist and enclose herewith several articles on talking machinee, that have appeared in recent issues of our paper.

Awaiting your favor, I remain,

DRY GOODS ECONOMIST. Mr. Edward and on my griday mentions WAW/JIF.

ENC.

[ATTACHMENT/ENCLOSURE]

DRY GOODS ECONOMIST 231 WEST THIRTY-NINTH STREET NEW YORK.

R. S. Timents,
Decrease Disputers,
Proper 9900 Beyond

DRY GOODS ECONOMIST 201 WEST THIRTY-NINTH STREET NEW YORK

W. A. WATSON

PHONE 4900 BHYANT

[ATTACHMENT/ENCLOSURE]

Reprinted from the Dry Goods Economist of August 10, 1916. (Copyright by the Dry Goods Economist.)

Points in the Handling of Talking Machines

No Advantage in Cutting Prices—Effect of Manufacturers' Restrictions on Retail Selling
—Important Facts to Consider in the Choice of Machines—Weigh Their Merits Carefully

The talking-machine business is still which has become established as "installyoung—so young that it has not yet outlived the age of "growing pains."

Contract Restrictions

Hence, there are opportunities for big sales and profits for the dealer, just as there always are in any new and thriving

Of course, there is more risk in the business than in one that has reached the staple stage, and more thought must be given to the department now than may be necessary later. But the opportunities of-fered are so great that the risk and effort

are well worth while.
One of the "growing pains" of the talking-machine business is the question whether or not the retailer shall adhere to the retail price fixed by the auanufacturer.

Don't Cut Prices

For the present, at least, there scens to be no sound reason for price cutting. The talking machine is an easy-payment rather than a cash business. The people who buy those machines seldom want to pay down \$50 or \$100. Even people with ample bank accounts buy more readily on the partial-payment plan.

It has been amply demonstrated that when the customer is not paying cash for an article the question of price becomes of secondary importance. The so-nuch-amonth idea looks so easy that Airs. Jones, who would hesitate to pay \$25 in cash for a talking machine, readily agrees to pay \$100 on the so-nuch-down-and-so-much-amonth basis.

An "Easy Payment" Industry

The only reason for a retailor's considering the selling of machines at less than the manufacturer's fixed price would seem to be his desire to sell on a cash basis. And up to date selling for cash has not been attended with any great layers of satisfaction to the total cash and the selling for cash has not been factor to the fixed cash selling for cash has not been determined to the fixed factor of the

EDITOR'S NOTE.—This is the third in our series of articles on the talking machine situation und outlook. Further discussion of the subject will be presented in an early issue.

All these facts are more fully realized, perhaps, by the older talking-machine manufacturers than they are by some relatives. And in the endeavor to protect their own interests, as well as those of the retailer, some of these manufacturers have gradually developed sales contracts which are "fearful and wonderful to behold." Another evidence of "growing cains." No industry which was not busy

getting its growth could or would be sewn up in such contracts.

These contracts are one of the 'hazards' of the business, to borrow a golingtern. Although protably drawn up originally for the purpose of maintaining prices, they also contain clauses which appeal strongly to the manufacturers because they afford convenient forms of protection

against competition.

For example, one such contract provides that no record except that made under certain patents may be demonstrated on that company's talking nuchines; also that the retulier cannot sell this particular talking machine; all he can dispose of is a license to the consumer as is a license to the consumer as the particular talking machine; all he can dispose of the consumer as the particular talking machine; all he can dispose of the consumer as the consumer as the company's own the can be consumed to the consumer as the company's own

An Odd Situation

Of course, under such coaditions no purchaser can insure the machine he thinks he owns! How's that for "growing pains" in an industry?

Such conditions will right themselves soon enough. In the meantime, the deuler must take them into his calculations in starting or expanding his talking-machine department.

There are two courses open to him: 1, to tie up with the older machine and record manufacturer; 2, to select machines in the open market and handle them in his own way.

Each course has its advantages and disadvantages, and the merchant must decide for himself which best fits in with his general business plans. Consider each ease in order.

The advantages of handling the older makes of muchines are that the reputation of the goods is established and the merchant is assured of a profit from the sales of records, as well as of machines. This latter is an important item.

The disadvantages are: that, in many cases, the retailer now entering the field will find competing stores already handling such machines; that the wide distribution of the goods supplies numerous competitors; and that the retailer is practically barred from featuring any other make of machine or records in his talking-machine denortment.

Advantages and Restrictions

The advantages of featuring the newer makes of machines are that almost without exception these are made with attachments which enable the owner to play any type of record, that the dealer is free to buy machines as he buys his, other merchandise (without restricting contracts), and that he may demonstrate and sell any records he chooses to buy.

The disadvantages are that the newer makes have not yet had the opportunity to establish a actional reputation, and the difficulties encountered in establishing a record department on a satisfactory baots

In our issue of July 15 list we explained something of the record situation. It can be briefly summed up in the statement that although there are several independent record manufacturers in the field, and more entering it, the vusty bulk of all tabling-muchine records are still being made by manufacturers who also make tabling anchines. Moreotecurers with also make tabling anchines. Altorocturer with the contraction of the second of the contraction of the second of the second of the second of their records to those retailers who has sell their machines.

It is not the province of the ECONOMIST to decide for the retailer which course offers the greater advantages. But it is our province to warm the merchant that he ought to weigh carefully the merits of the machines he selects, and that he should avoid collecting a necessary of the selection of the province of the selection of

Collection Corps Turned Into Selling Force

When Talking Machine Customers Resent Collector's Call Ingenious Retailer Develops New Method of Approach—Jacks Up Delinquents and Sells Machines and Records

"The system we started for the following up of delinquents has become one of the most valuable adjuncts of our sales promotion work," recently remarked the talking-machine bayer of an Eastern store to an ECONMIST staff member.

"When the war broke out," he continued, "our collections slowed up to such an extent that we considered it necessary to follow up the delinquents by personal calls as well as by letters.

Customers Resent Collector's Call

"So we selected two intelligent women for this purpose. We thought they would solve our collection difficulties. But we soon found that our new plan was stirring up a horned's nest. The class of people to whom we were selling talking machines resented the call of even the most diplowatic collection.

"But objections didn't help my collection showing. I simply had to get the money. So, when I saw my pill was too bitter to be swallowed I decided to sugarcot it.

Finding Point of Contact

"I fired my collectors, and hired them again as a 'service corps." In other words, when I sent my two women out to see the delinquents I furnished them with little grips containing the newest and best records, and with instructions to use those records for testing the customers' ma-

grips containing the newstant as described ords, and with instructions to use those records for testing the customers' machines.

"The ostensible business of these women was to see that the talking machines we had sold were in good order and giving satisfactory service. Of course, on

such a mission they received the most courteous consideration. Women Always Ready to Listen

"Now, you might think that the average housewife, being busy with home duties, would leave our service expert to do



Our collections have slowed up.

her testing and would go about the honsework. But we found that not one woman in a hundred will leave the talking machine as long as our representative continues to play new records. Moreover, it

soon developed that many women were so pleased with the visit and the opportunity to hear the new records that our service women found it an easy matter to take orders for one, two, und in some cases a dozen records in almost every home they visited."

"But what about credit?" the Econo-MIST man asked. "You started this plan to jack up delinquents, didn't you?"

Helped Collection Showing

"That's what we started it for, sure enough," replied the buyer, "and it was entirely successful. How to handle each case is a matter left largely to the discretion of our callers. Being on the spot, she can size up the situation, and judge whether or not it is wise to bring up the matter of collections at the time. If she decides in the negative, then we acknowlodge the eustomer's order when she turns it in and also call attention to the overdue account. In a surprisingly large number of eases the customer is so pleased with our 'personal service' that we have little further difficulty in keeping the collections up to date.

"Indeed, whether our service women make a sale to a customer or not, the call



Not one woman in a hundred would leave the talking machine.

itself almost always has a salutary effect. In many instances, payments on back accounts reach us within a day or two after the call of our service corps.

Sells Machines Also

"As I told you, we started with the idea of following up delinquents. We soon found the plan so profitable, however, that we followed up all our customers.

"Of course, our service women occasionally uncover a real complaint. Consequently, this calling on customers has made a little more work for our repair departments. But we are glad to know of

any case where one of our machines really needs attention, and the extra record sales developed by our 'service corps' pay a mighty utce profit above all expenses of the plan

Exchanging Cheap Machines

"As this service work develops," continued the buyer, "it is leading to the sale of machines as well as of records. For instance, one of our women may call on a customer who has bought a cheap machine, thinking to use it for dancing only. When the customer hears a really attractive song reproduced on this machine size



Remarkant the customer's interest.

is often pleasantly surprised at the result. Our representative then has the opportunity to suggest how well the record sounds when played by one of our larger machines. Suggestions of this sort have led to a number of small machines being exchanged for more expensive models.

and a partial in some homes the talking materior particularly if it is one of the charge purposes and the particular in the charge purposes and the charge purposes and the closet shelf. The visit of our representative often reaswhear the eastomer's interest in it, and, if it does not lead to an exchange for a more expensive grade model, at least opens the way to the sale of new records.

Get Good "Leads"

"In a number of instances, too," continued the buyer, "customers have been so pleased with our attention that they have given members of our "service corps' cards of introduction to live prospects. In these cases, machine sales have been developed with very little effort on our part.

"So, you see, what started as a means of following up delinquents has developedinto an important part of our sales promotion system."

How to Handle Talking Machine Repairs

What Dealers Should and Should Not Expect of Manufacturers—Importance of Instructing Consumers in the Right Use of Machines

The piece of mechanism that will not not an occasional adjustment has yet to be invented. This is true of the tablitus machine as of short devices—automobiles, making the state of the contraction of the

Some years ago, for example, when the big talking muchine companies began to export their products to South America, they encountered considerable trouble, machines being returned with which there was little or nothing the matter. Some dealer - in Buenos Aires, let us saywould return the machine to New York because a governor spring, 2 in. long and weighing a fraction of an ounce, had broken. The dealer did not know what it was that caused the trouble so he sent back the whole machine, weighing perhaps 100 lb., at considerable transportation cost and at the risk of serious damage in the course of the trip.

Some Dealers Thoughtless

With the big increase in interest in tailing machines on the part of the dealers—particularly department stores—instances of more or less similar character are becoming quite common in the dometic trails. We could the control of the trails of the could be control or the record of a factory, perhaps 1,000 miles away. In one case it required less than the could be control or the could be control or a factory, perhaps 1,000 miles away. In one case it required less than the could be control or the could be control or a factory perhaps 1,000 miles away. In one case it required less than away in one case it required less than a machine which had traveled 1,000 miles and risk of daman eng freight changes and risk of daman eng freight changes.

This is not fair to the manufacturer, nor is it satisfactory to the retailer. Moreover, it can very readily be avoided. The first step in the right direction is for the head of a store's talking machine department to thoroughly understand, the machine he purchases. This is no difficult

What the Buyer Should Know

We have already explained, in the ECONOMIST of July 8, the various features that go to make up a talking machine, viz., the cabinet, the mechanism for reproducing sound and the motor. There are two main sources of talking machine difficul-

Euron's Note: This is the fourth article in our series on the handling of talking machines and the talking machine situation from the retailer's standpoint. The next article will appear in an early issue.

ties, the sound box and the motor. Of these, the motor is by far the more important for the retuiler to understand, not plat his may know how to make minor adjustments, but hiso that he may be estain that he is buying the right machine. The buyer of talking machines should instantiate the signs and the state of the

Moreover, he will do well to have his salesforce present while it is being explained. Then, too, he should appoint one of his assistants, preferably of a mechanical turn of mind, to look after adjustments.

The reason for having the entire force present is that they need the knowledge if they are to handle machines properly, and need it, also as part of their selling

Tell the Consumer

Obviously, it is important in the retailing of such a mechanism as a talking machine that the consumer be made to unorderand that he is not buying a fool-proof chunk of wood and iron, but a machine deinsten cough to reproduce with wonderful accuracy vibrations of the human voice. The consumer should be shown that such a machine must, of necessity, we are not to be a such as the such as a such as the owner, The retail salesman, herefore, after dooing a sale, should invariably instruct the eastoner as to taking care of

the machine. He should show where the motor is oiled and how the sound-box should be handled. He should then explain the one or two minor adjustments that are likely to be necessary. For instance, one of the governor balls may get out of true and cause a peculiar knocking. The customer should be told not to attempt to make the adjustment, but to ring up the store so that it may be attended to by a man who knows how to handle a talking machine motor. If left in ignorance, ngain, the purchaser may attempt to adjust the soundbox, and a quarter turn of one of the screws will so upset its mechanism as to cause a rattle or make the tone unsatisfactory. Or someone may carelessly take hold of the little vibrating arm of the soundbox, and as this is attached only to n thin piece of mica at one end the soundbox will inevitably

May Cause Serious Accident

Some people who feel that they have a meaning the mean and the wholes go round." The customer, therefore, should be warned that this is a dangerous proceeding, that the steel spring which is the basis of the motor is many times more

powerful than the one which he perhaps took out of nn niarm clock when he was a boy, and that the unfastening of the spring may result in very serious injury to the amateur mechanic.

As we have suggested above, the minor talking machine repairs should be taken care of by the store's service and repair department. When major repairs are nec-

cssary, for instance, the replacement of n broken mainspring, the manufacturer's

aid should be sought.
Incidentally, the frieture of the mainspring is not an uncommon occurance, because these springs must be highly tempered and, of course, are correspondingly bettle. When a mainspring breaks it is better to have it replaced by the manufacturer than for the retulier's mechanic, unless he is unusually expert, to attempt to make the repair.

Return the Motor Only

It is not necessary, however, to return the entire machine to the factory. Only the motor need be sent back. With practically all present makes of talking machines the motor can very easily be detached, so that, instead of returning a large piece of fine exhinet work, which might be damaged in transit, all that the retailer needs to send back is a small box containing the less fragile steed motor.

Follow Up Customers

The necessity for occasionally making slight adjustments of any talking machine emphasizes the value of the system of following up of customers outlined in the ECONOMIST of Aug. 19. In that article we spoke primarily of the value of such work as a means of keeping collections on leased muchines up to date. This service, however, also has a distinct value in preventing customers from injuring their machines in trying to correct minor difficulties, neither the cause nor the care of which they understand. It also enables the store to build up a nice business on records and to use cheap muchines as a leader to interest customers in the purchase of the more expensive and handsome talking machines.

There is one retailer in a little town in New England, for instance, who some months ago bought a hundred \$6 machines. He has kept those muchines circulating in his community ever since, selling a customer one today and next week or next month exclinaring it and allowing the \$5 credit to apply on the purchase of a higher priced machine.

A repair department, therefore, if proper advantage is taken of it in following up customers, is not an expense, but rather a means of satisfying customers and of increasing sales.

Selling Low-Priced Talking Machines as Toys

An Aid in Creating Interest in the Better Instruments-Tone of the Machine Important-Keep Record of Purchasers

he decides to feature.

tention to the tone quality of the machines Some merchants hesitate about featuring low-priced talking machines as toys. They figure that such a policy will interfere with the sales of higher-priced instruments.

"Every time I sell a toy talking machine," argued a merchant to an Econo-MIST staff-member recently, "I kill off a prospect. The toy machine will do practically what the big machine will do, even if it will not do it as well. Why should I feature \$5 or \$10 machines, when I can just as well sell \$50 or \$100 instruments?"

Create Demand for Fine Instruments

Experience has proven this line of reasoning to be faulty. The sale of toy talking machines is one of the best means of creating business for the finer grades of instruments. The toy talking machine, as the merchant referred to reasoned, is unlike any other kind of toy.

The toy piano, for instance, is in no sense a musical instrument. It is a toy pure and simple. Hearing a youngster pound a toy piano never gave anyone the desire to hear a real piano-the desire it usually creates is the desire to run.

The low-priced talking machine, on the other hand, will play the same records as the fine, expensive instrument.

Owing to its small size and cheaper motor, it does not, of course, give as good results, but it does reproduce a record sufficiently well not to annoy the grown folks of the family.

Grown Folks Borrow the "Toy"

Once the toy machine gets into the home, as a general thing, the grown folks become quite as much interested in it as the youngsters. They begin buying records, one here, one there, "for the kids," until they have the nucleus of a fairly good collection. Then these grown-ups decide that they want something better than the toy machine for reproducing those records. It is only a step from that decision to the purchase of a fine machine as a musical instrument.

Follow Them Up

For this reason the far-sighted store manager insists that a record be kept of all purchasers of toy talking machines during the Christmas selling.

This list of toy machine purchasers should be held until the lull in February and March, and should then be followed up with an offer to allow the full purchase price of the toy machine to apply on the purchase of a fine instrument, provided, of course, that the toy machine is in good condition.

Since one of the objects of featuring the low-priced machine is that it shall serve as an advertisement in the home of the customer of the enjoyment to be had from a talking machine, the buyer of toy talking machines should give eareful at-

Entron's Norm:-This is the fifth article in our series on the handling of talking muchines from the retailer's standpoint. The next article will appear in an early issue.

talking machines picks his machine as the women "pick" horses at the racespurely on their "looks." This is a mistake which will cost his house the profit

The importance of this is often overlooked. Too frequently the buyer of toy on the sale of many a fine talking machine.

Space a Factor

Of course, it is out of the question to get tone reproduction in a \$10 machine equal to that of a \$100 instrument. For among other requirements, space to properly amplify the sound is one of the prime requisites for a good tone in a talking machine. There is, however, plenty of opportunity for the exercise of sound judgment in the selection of low-priced machines.

Examine Motor

Having made sure of the tone quality of the toy machine, the next feature to be examined is the motor. The buyer who, in his anxiety to undersell all competitors, glosses over this important piece of talking machine mechanism is storing up trouble a-plenty for himself.

Every Machine Helps Record Sales

As we mentioned before, in most cases the small machine will play the same record as the expensive instrument; therefore, each of the purchasers of these toy machines is a prospect for record sales. The man who sells talking machines should always keep in mind that when he sells a machine he sells the customer the

privilege of constantly coming back for records. This, of course, suggests the following up of purchases of any machine, no mat-

ter what its price, with announcements of Carry Low-Priced Records

new records from time to time.

It also suggests the advisability of handling some of the cheaper lines of records in the toy department. There are a number of good records which retail at from 10 cents to 35 cents. These are the ones which the people who buy low-priced machines will be most likely to purchase -at least for the first few months. A man who has paid \$5 for a talking machine is not likely to pay \$3 for a

Finer Records Not Affected

This fact has led some merehants into thinking that the featuring of cheap machines and eheap records may hurt the sale of the finer records. Again the facts have shown the contrary to be the case. Even the purchasers of expensive talking machines usually begin by buying ragtime records, but they soon demand better music. The rag-time serves as the kindergarten to the classics.

Soon Want Better Music

In the same way, the people who buy \$5, \$10 or \$15 machines for the youngster

begin by picking up low-priced records. Then they hear some beautiful vocal or instrumental record played on a machine belonging to some friend, and they decide to try it on their own machine. It gives a fairly good result. The inevitable result is that they begin buying more of the higher-priced records. Next, having the good records, they want a machine that will give more satisfactory results. This has been the history of the sale of many a fine machine.

Then, again, it must be remembered that the talking machine of to-day is more and more coming to be considered as a niece of fine furniture.

The Talking Machine as an Ornament

The woman with the well-furnished living-room is no longer satisfied with the chean little talking machine over in the corner. She wants a fine cabinet that will look as well as any other piece of furniture in the room.

Her toy talking machine is at first only an amusement for children; but soon it is used for entertaining the family. Once the family begin playing the machine they begin to find it necessary to apologize for it to friends, with the result that sooner or later they feel the necessity of getting a machine for which no apologies will be necessary.

Easy to Sell

The pushing of the toy talking machines is a comparatively simple matter. Indeed, they push themselves. from the usual newspaper advertising which would be given to any toy, it is only necessary to have the machine played constantly in the department. "Music hath charms" not only "to soothe the savage breast," but to attract the tired shopper. You will never fail to find a crowd around a talking machine that is being played, whether it is a big machine or a little one.

This serves as an advertisement not only for your machines, but for your records in the toy department.

One Danger Point

There is one difficulty that must be overcome by the store management in the featuring of toy machines, however. This is: The jealousy which naturally exists between the toy buyer and the musical instrument buyer, or vice versa. What method shall be adopted for overcoming this is, of course, a matter for each merehant to decide. The merchant must make it clear, however, that handling talking machines in the two departments is necessary for the best interests of the store; furthermore, that, to get the biggest returns from the sales efforts, a thorough co-operation between the two departments is essential.

Unlike other toys, low-priced talking machines and records should not be considered merely as toys for children, but as a means of educating the grown-ups to the possibilities of a fine machine for the production of music in the home.

Edisa, T.A. - Photographs Regu-

Edward Marshall Fitzgerald Bldg., 1482 Broadway New York City

THE BIGGEST INTERVIEW SERVICE EVER OFFERED TO AMERICAN NEWSPAPERS

Used by:

The New York Sun The Pittsburgh Dispatch The Los Angeles Times Philadelphia Inquirer San Francisco Chronicle The Syracuse Herald The New Orleans Times—Picay Anaconda Standard The Boston Post The San Antonio Express Chicago Herald And others

October 23, 1916.

Mr. W. H. Meadowcroft, c/o Edison's Laboratory, Orange, N.J.

Dear Sir:

(1108)

Mr. Edward Marshall, who is now in London, has written asking if won't try to obtain from you two prints of the photograph which was taken a year or more ago, comprising yourself, Mr. Edison, Mr. Ford, Mr. Marshall and possibly one or more others standing on the steps of the Laboratory. One print he asks me to mail at once. The other he would like very much to have autographed by you and Mr. Edison, then sent to me, and by me sent to Mr. Ford for autographing.

I know Mr. Marshall will be greatly indebted to you if you can conveniently grant his request.

Whiteler third yours very truly,

Marchael Soc'y to Mr. Marshall.

Marchael Soc'y to Mr. Marshall.

Medic Soc's to Mr. Marshall.

DAY LETTER

THE WESTERN UNION TELEGRAPH COMPANY

25,000 OFFICES IN AMERICA THEO. N. VAIL, PRESIDENT RECEIVED AT

NEW YORK/ 1130AM OCT 24 1916

THOMAS A EDISON WEST OR ANGE NJ

DURING THE WORLDS SERIES BASEFALL GAMES THE TRAFFIC DEPARTMENT OF THE ASSOCIATED PRESS CONNECTED ALL ITS DAY TELEGRAPH CIRCUITS WITH A TOTAL MILEAGE OF TWENTY SIX THOUSAND AND WITH FIVE HUNDRED OPERATORS DISTRIBUTED FROM BANGOR MAINE TO SEATTLE SANDIEGO HUNDRED GERATORS DISTRIBUYED FROM BANGOK WAINE TO SEATTLE SANDIE TAMPA AND GALVESTON IT WAS GERATED FOR OVER TWO HOURSED DALLY AND WES OF COURSE, THE MOST INTRICATE, TELEGRAPH CIRCUIT EVER TOUGH THE SENDING PROPERTY OF THE TWENTY SIX THOUSAND TOUGH THE SENDING FOR THE THE TWENTY SIX THOUSAND WITH THE TROPY OF THE GAMES AS ONE THE THE TWENTY OF THE ART OF TELEGRAPH FROM THE EARLY DAYS THE TRAFFIC DEPARTMENT OF THE ARSO PRESS WOULD WELCOME A COLLECT TREATMENT FOR MOST OF E PUBLISHEN IN THE TRAFFIC DEPARTMENT OF THE ART OF THE COURSE OF THE TRAFFIC DEPARTMENT OF THE ART OF THE COURSE OF THE TRAFFIC DEPARTMENT OF THE ART OF THE COURSE OF THE TRAFFIC DEPARTMENT OF THE ART OF THE COURSE OF THE TRAFFIC DEPARTMENT OF THE ART OF THE COURSE OF THE TRAFFIC DEPARTMENT OF THE ART OF THE COURSE OF THE TRAFFIC DEPARTMENT OF THE ART OF THE

KENT COOPER Sent 27 10/26/16 TRAFFIC MGR THE ASSOCIATED PRESS 1232PM what was well organized to be able to accomplish what was Ball games

Defend Defend Somewhat

7

October 25, 1916.

Mr. William A. Watson,

Manager Phonograph Department,

Dry Goods Economist,

201 West Thirty-ninth Street,

New York City.

Dear Sir:

Your letter of the twentieth addressed to it. Hoore duly resched it. Edison, and the latter requests me to say that he will be very glad to see you at some convenient time, and suggests that you telephone a day or so in advance of your intended visit so that an appointment can be arranged.

If you will call Orange 907 and ask for Mr. Meacowcroft, who is Mr. Edison's assistant, you will be able to arrange an appointment.

Yours faithfully.

Second Vice President.

WM-AH

· Y

WHO'S WHO IN NEW YORK

NEW YORK OC. 26, 191

Mr. Thomas Alva Edison, Orange, N. J.

Dear Mr. Edison: -

We have not as yet reactived your reply to our letter of June 18th saking for revised biographical data of the saking for revised biographical data of the saking for revised biographical data of the saking for the sa

We are anxioue to make this 7th Edition of "Who's Who in New York" complete and accurate in every way but to accomplish this we have to ask your co-operation.

As stated previously, by supplying this information you incur no obligation to become a subscriber and we will not permit you to be annoyed by solicitations to purchase.

As a matter of fact there will be no copies available to the public after publication as we shall bring out only as many volumes as are actually subscribed for in advance.

We feel sure you will want to possess a copy and we therefore suggest that you fill out the enclosed order blank and return it to us before we close our subscription book.

Sincerely yours,

Nerwaull those,

HWK/T

OLLIER & SON.

October 27, 1916

Dear Mr. Meadoweroft:

that you take this means of approaching in Edison. I have therefore unity the little of a colored letter which are the colored letter with the color of the colored letter to deal with it as a could be dealt by it. is known it thinks that if it. Edison sees this letter no might emply, in that once I should hope for the interview at some later dute.

will you not be so good as to let us hear from you what you think of this?

With regards,

Sincerely yours. Hury for

W. Meadowcroft, Esq. Thomas A. Edison, Inc. Orange, E. J.

Colliers
THE SERBORN VALUES

P. F. GOLLER R. E. Div. STREET

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Hele Mi Edwar wite

Deer ir. Edison:

Day west offer next be come gend mon to collier's electrical mover,

to he dated December 2; is intended to be a great stimulus to the electrical; is intended to be a great stimulus to the electrical; is intended to be a great stimulus to the electrical; is intended to the country to the control of the control of

7ith much regard,

Hairy & former

Managing Editor

Thomas A. Edison, Esq. Orange, H.J.

THE NEW WEST MAGAZINE

BRANCHES

New Yorks 347 Fifth Avenue Chicago: 360 Peoples Gas Building Portlands 409 Lumbet Enthurge Building Bolists 423 Empire Building "BUILDING THE WEST"

1211 WALKER BANK BUILDING
SALT LAKE CITY, UTAH

Six Years

October 27, 1916

Mr. Thomas A. Edison Orange, New Jewsey

Dear Sir:

Attached is copy of letter from the president of the General Federation of Women's Clubs, in which she mentions your name.

We also mailed you, under date of October 18, copy of a resolution passed by the Idaho State Federation of Women's Clubs. A similar resolution has been passed by the Utah and the Hevada State Federations.

Will you not send some message to these women through The New West Magazine Electrical Number? It would be very much appreciated by them as well as by us.

The New West Magazine

The New West Magazine

What dear of the Minute of

October 20, 1916

Mrs. Robert W. Spangler Western Club Woman Department The New West Magazins Salt Dake City, Utah

Dear Mrs. Spangler:

preparations being made for the observance of America's Electrical Week, December 2 to 9. Many marvelous transformations have been wrought by the use of electricity since it was harnessed by man, and its fitting that all the people should join in some general observance of this week as outlined by the Society for Electrical Development.

The smancipation of woman from household drudgery has been largely brought about through electrical invention, and she may well give her commendation to this movement which makes for progress and enlightenment.

I also desire to bear testimony to the fine patriction shown by Thomas A. Edison in placing his transcendent talents at the service of his country.

Sincerely yours

Mrs. Josiah Evans Cowles President General Federation of Women's Clubs

Los Angeles, California.



Scientific American

MUNN & Co. INC. WOOLWOITH BUILDING

Meet odtober 28, 1916.

Mr. Meadowcroft. Edison Laboratories, West Orange, N. J.

Dear Sir:-

Mr. Charles A. Munn recently had an interview with Mr. Edison and suggested that the SCIENTIFIC AMERICAN would like to publish something regarding Mr. Edison's work during the present war-times, when certain materials have been cut off from our markets.

Mr. Edison agreed to grant an interview to a member of our staff. Will it be possible to arrange a date sometime the latter part of next week when I could call with a stenographer to interview wheth south cell with a stenographer to interview Mr. Edison? I am very anxious to have Mr. Edison's message published in our special Electrical Number of December 2d, which means that I must have the material in hand by the middle of November.

Very truly yours,

Managing Editor.

October 51,1916.

A. Russell Bond, Esq., Managing Editor, Scientific American, 235 Broadway, Now York, N.Y.

Deer Sir:-

Your favor of the 28th inst., his been received. In Adison seve that he is willing to grant an interview to a member of your staff towards the latter part of most week.

I would suggest that you call me on the tolophone a day in advence and I will make a definite appointment for you.

Yours very truly.

Accistont to Mr. Edison.

October 30,1916.

Ir. Henry J. Formen,
Meneging Editor,
OULLERS,
416 Kest 13th Street,
New York City, 11.1

Dear Sir :-

I have shown in Edison your favor of the 27th inst. He says that he will probably be able to give your representative an interview some time next week. His time this week in all taken up, but if you will get in touch with me may about bednesday morning next week. I will try end make a definite appointment for your representative.

Yours very truly,

Assistant to ir. Misson.

Collier's

THE MINISOLA WEEKING

F. COLLIER R & SON, INCORPORATED

AIR WEST 1311 STREET

HEW YORK

AUGUST

EDITORIAL ROOMS HARK SULLIVAN, EDITOR

L

Dear Mr. Meadowcroft:

for your letter of yesterdey. But, as they say your seek here to restrict the test as they say you have here to the test the test and the test seek and the

Cordially yours,

W. H. Headowcroft, Esq. Krany J. Jorman c/o Thomas A. Edison Orenge, ii. J.

Movember 1.1916.

Mr. Henry J. Forman,
Menaging Editor,
COLLIERS,
416 West 13th Street,
Hew York City, H.Y.

Dear Mr. Formun:

I am in receipt of your favor of
the 31st ultime, and in reply beg to say that in
accordance with your desire, I will set in. Edison
to "have a heart". He is not of town for today
and temerrow, but I hope he will be here on Friday
and will then place your letter before him.

Yours very truly,

Assistant to Mr. Edicon

Western Electric Company.

Language Transmit New York November 6, 1916.

MR. THOMAS A. EDISON. Denthus Enclosure Copy of Sandons

MR. THOMAS A. EDISON. Denthus Enclosure Copy of Sandons

MR. THOMAS A. EDISON. Denthus Enclosure Copy of Sandons

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MR. THOMAS A. EDISON. Denthus Enclosure Copy of Sandons

MR. THOMAS A. EDISON. Denthus Enclosed with the Machine Copy of Sandons

MR. THOMAS A. EDISON. Denthus Enclosed with the Western Electric Copy of the Copy of Sandons

MR. THOMAS A. EDISON. Denthus Enclosed with the Western Electric Copy of the Copy of th

In celebration of this anniversary we are planning to make the December number of the Company paper, the Western Electric News, a Scribner number. Among other thinge, the enclosed letter of introduction is to be reproduced and it occurred to me that you might like to write a personal letter to Mr. Scribner which we could also reproduce. I have not said anything to him about the matter but I know from the esteem in which he holds you that he would cherish such a letter very much.

daughter is to be married on it.

As the News goes to print early next week, it would be desirable for un to have anything you might write not later than Monday (November 13th) of next week. Mr. Seribner is in Vermont at the present time and may go directly to Chicago where his daughter is to be married. If you will send the letter to me I will see that it is forwarded to him wherever he may be and will at the same time arrange to have it photographically reproduced for the News.

With kindest personal regards, I am,

Very sincersly,

Assistant Chief Engineer.

FBJ-GR

WESTERN EXCETTAGE MANUSCRIPTION OF COLUMN TOTAL OF THE STREET OF THE STR

Scribner Rem. - Dec. 1916

November 9,1916

Er. F. B. Jonett, c/o Mostorn Electric Company, 463 West Street, How York, H.Y.

My door ir. Jewett:

Our friend Corther, and also that you enclosed a copy of Barton's lotter introducing him to no thirty-noven years ago.

He was ostainly one of the most prolific inventors of the arc, and I congretulate him upon reaching the Northalm anniversary of his telephonic onginering, and also usen living in a heavy age of the world when the people hold inventors in great repute.

Yours very truly.

Hovembor 9,1916

ir. C. S. Scribner, c/o lestern Electric Company, 463 West Street, How York, H.Y.

Friend Coribnor:

in a few days you are going to calcibrate the 40th and versaw; of your enterance into keeledand Engineering. I am glad to know that actic your forty years of here work you are estill "in the ring"; and I went to compretite you on that and on the actic your forty years of here work you are estill "in the ring"; and I went to compretitely you must call on the actic of here were the compression of the call of the actic your forty of the call of the

marries of your despiter my folicitations on the take place on your desired, which I understand to to take place on your anniversary day, thus making the day coulty evental.

With corded rogered and all good wiches,

Cincoroly yours,

M. A. Follman, Sociy to Mr. Ddward Marchall, 1482 Broadway, How York City, How York.

in attending to in- Marchall's requests, contained in attending to in- Marchall's requests, contained in Jour feror of the 28 ultime. In the first income and in the root place, we do not have any prints of the perticular shotor used to make the book of called the theory with the state of the perticular form of the particular shot output of the theory of the called the the category of the exploration of the category in or are of the cepter.

I bont the two photos by first-class mail actuaday afternoon, and trust they have been received in good order.

Rindly give my very hindest regard, to Herehall the next time you write to him.

Yours very truly.

soistant to Hr. Mison.

Hovember 14,1916.

Proce Illustrating Service, Inc., 142 Lest Twenty-Third Street, How York City, H.Y.

Gontlemen: Attention in H. W. Sierichs

Referring to your fewer of the SOth co very buny that he has had no those for the Sold co very buny that he has had no those for the beautiful that he had no those for the he will store a few minutes come day this work.

Just at this moment I do not know of his going arey anywhere, but I would suggest tomorrom morning might be a good time. Please let your Fhotographer use for me.

Yours very truly.

Assistant to Er. Edison.

EVENTS

ESTABLISHED 1902 By THE PRESENT EDITOR

Springfield, Lane.
November 16. 1916.

In never reserves the Model parige. 1916.

Ir. Thos. A. Artison which are that the nacros should go to Descreten West Orange, N.J.

Dear Sir: to be some difference of opinion among authorities as to the award of the Nobel Pylize

in Physics for 1915. Some authorities state that it was awarded, one half to yourself and one half to Lr. Tesla; others that it was awarded to two English scientists.

For the benefit of our thousands of readers we would be glad of the facts as to whether you ever received the Hobel Prize.

We are enclosing a stamped and addressed envelope for your convenience should you deem this matter worthy of a reply.

30笃

Thanking you in advance for this courtesy, we are Very respectfully yours,

EGI:/AG

Curent

Scientific American

ESTABLISHED 1845

MUNN & CO. INC.

WOOLNORTH BUILDING

233 BROADWAY, NEW YORK

No vember 16, 1916

Mr. Thomas A. Edison, Edison Laboratories, West Orange, N.J.

Dear Mr. Edison:-

(1301)

I am sending you herewith an article prepared from my interview with you last week, and which we expect to use in the Electrical Number of the Scientific American, December

Will you be so kind as to examine it and return it to me with any corrections you may deem necessary.

Could you let me have the article back by Monday, as we go to press on the Electrical Number early next week.

Faithfully yours,



Hovembor 18,1916.

Scientific American, 233 Broadway, How York City,

Door Mr. Bond:

Attention Mr. D.R.Bond

Your favor of the 16th instant, one-losing the article propared from your interview with irr Edison lest week wes received and shown to him. He has made a few minor charges, and I am returning it to you herowith.

Mr. Edison noticed that you have this in the form of an article by him. He objects most attenuously to this, and insists that you publish it solely seem interview, and not as an article by him. He says that was the understanding with you.

Yours vory truly,

Assistant to Mr. Edison.

Englornio



Door Ur. Edison:

GUEN

We are preparing for the Physical Culture Magazine an article on the subject of how much sleep must one have.

There have been so many statements circulated to the effect that Thomas A. Edison does not sleep or that he sleeps only three or four hours out of each twenty-four, that we would appreciate a brief statement from you us to your habits and opinions in this matter.

What is the truth about these reports?

How many hours out of each twenty-four do you sloop on the average? are you of the opinion that the average man or moman sleeps too auch,or could amintain health and energy with as little sleep as you are rescribed to take?

Po you think that your exceptionally vigorous constitution has made it nessible for you to recuperate more quickly and with less sleep than the average person?

If it is not imposing upon you, we would appreciate a few words from you on these points by letter. Through our magazine we are trying to improve the health of the Nation, and we hope that in this instance you will help us to help others in this way.

Thanking you in advance for your courtesy in the matter, I am

OWN TAY

Thomas A. Edison, Esq.,

East Orange, Now Jersey.

For At years I averaged about of house about I'm 24. for the last 5 years about I'm I have had assistant who for years dedutget much work also than I ded superth much work also than I dead superth I have heard of deep steep as good as I think I have a deep steep as good as I think I have a deep steep too much or I have seef dreamy steep.

I have people as a rule also too much I have people as a rule also too much in fact averything were do that they say a tray over do 50% as in Enting, a cooping they are a over do 50% as in Enting, a cooping

SCIENTIFIC AMERICAN ESTABLISHED 18-45

ARB/K

MUNN & Co. INC.

WOOLWOITH BUILDING

233 BROADWAY NEW YORK

November 21,1916

Mr. William H. Meadowcroft, Assistant to Mr. Edison, Edison Laboratories, Orange, N.J.

Dear Mr.Meadowcroft:-

returning the article prepared from my interview with Mr. Edison. I wish you would thank him in my behalf for reading the manuscript and correcting it.

I did not understand that Mr. Edison objected to having the matter published as an article. Of course, we shall comply with his wishes and state in our Aditorial note, and also in the title that this is an interview.

The article will appear in our issue of December 2nd, copies of which will be mailed to Hr. Edison immediately upon publication.

Very truly yours,

Afussell Boud

Offmu

THE BRAGDON, LORD & NAGLE Co., Inc.

Textile World Journal

Textile World Record Textile Manufacturers Journal

OFFICIAL AMERICAN TEXTILE DIRECTORY TEXTILE ADVANCE NEWS AMERICAN DIRECTORY OF KNITTING TRADE TEXTILE AND TECHNICAL BOOKS

461 EIGHTH AVE. AT 34TH. ST. New YORK, 11/22/16.

Thomas A. Edison, Inc. ORANGE, N. J.,

Dear Sire: - Developments in the manufacture of dyestaffs by domes tio producers have been and are of the greatest interest to the textile industry. Manufacturers are concerned about the possitive industry. bilities of securing future supplies for the operation of their plants and information on this score cannot help but be of mutual benefit.

With a view to giving official data of the present produc-tive capacity of domestic dyestuff plants and an accurate forecast of the future supply we are asking all domestic dye manufacturers to give us complete details of their plants, their capacity, the products which they are making and those they intend to make.

As a matter of human interest we desire to illustrate this information, which will be compiled for our annual issue to be published January 13, 1917, with views of the various dysetuff plants which avance been constructed or are in the process of construction.

Possible moment a description of your plant, giving the excilent possible moment a description of your plant, giving the companion the products now made and those in contemplation) specifying which are intermediate and which are finished dyes, accompanying same with a photograph for reproduction.

Will you advise us at once whether we may expect such an article from you.

Thanking you advance, we are

Yours truly, THE BRAGDON, LORD & NAGLE CO.,

Hout think we want Editor. to do this as we are not in Eusenem regularly but only lemposwerly

November 27,1916.

The Brandon, Lord & Hagle Co., Inc., 461 Eight Avo. at 34th Street, New York, N.Y.

Gentlemon: Attention Mr. V.E. Carroll:

Your fever of the 22d instant, hee been received and brought to Ir. Milican's personal attention. He wishes us to advise you that we do not think it is quite desirable for us to furnish the information you satisfor, as we are not in the business to ideain, but are only in it temperarily.

Yours very truly.

Edison Laboratory.

LONDON, E.C.

Thomas Alva Edison, Esq., West Orange, New Jersey, U.S.A.

Dend Shato 19 18.

Dear Sir.

A forthcoming issue of the Lunion "Graphic" is to be devoted to the United States. The purpose is two-fould- (Intul), to acquaint the British Empire with the conservatal habits and two states; associatly, to proper the way for a new intense of the conservation of th

The issue will have many articles on America dealing with its character and with its material and spiritual sides, sympathically written by Americans and by Britons.

of yourself for inclusion in this Number? And if the project and purpose of the enterprise comment themselves to you, would you care to write me your approval, or make any continuous for their success?

Yours faithfully,

December 22,1910.

The Graphic,
Tallic House,
bhitefriare,
London, E. C.

Contlemen: Attention : Lee Schoff.

Your favor of the 1st instant has just been received, and in accordance with your request. In. Editon is conding you a signed photograph, which you will find horosith.

He regrets that he will not be able to take time to write any statement for you, as he is very busy on some important experiments which are no intricate and involved that he does not wish to withdress his thoughts on thes.

> Yours vory truly, Edison Saboratory.

A/1692.

Docomber 1,1916.

Mr. Thomas N. James, 1708., Massachusotts Biographical Society, 142 Borkeley Street, Boston, Mass.

Dear Sir :-

Replying to your favor of the 28th ultime, let me say that it is absolutely out of the question to consider such a proposition as you place before me. In the first place, literary work is entirely out of my line, and in the most place, it would be simply impossible for me to devote a moment's consideration to a matter of this kind.

My extensive business interesse and experiment work demand my element attention, 10 to 20 hours a day, and I cannot give time to other matters, not even for an interview.

Yours vory truly

/1423.

M°CLURE'S MAGAZINE THE McClure Publications

FOLTORIAL DEPARTMENT

December 5th, 1916.

of aret

Thomas A. Edison, Esq., Orange, New Jersey.

Dear Mr. Edison:

I cannot let you off! That book "For France" needs you. Even if you writs only two or three sentences, that will be sufficient. We cannot let the volume go to presswithout your

name appearing in the table of contente. me hear from you again.

Faithfully yours,

Charles Hawson To For the Committee

Mr. Edward ver Werkern

1680

ectrical

THE MONTHLY MAGAZINE OF THE ELECTRICAL TRADE Supplementing Electrical World Service

239 WEST 39TH STREET, NEW YORK CITY

December 8, 1916

Mr. Thomas A. Edison, Orange,

My dear Mr. Edison:

We understand that Mr. Doherty has presented you with an electric flag which has been prected on your factory.

In view of the general interest in your own great work for preparedness, and in Mr. Doherty as a leader of the slactrical industry, I am asking your permission to publish in the next number of Electrical Merchandising a picture of your factory building showing this flag.

Mr. Meadowcroft has courteously consented to procure such a photograph for us, providing your consent to its use is obtained.

Hoping that no objection will be interposed, I am,

Respectfully your

OAC/JB

Docember 11,1916.

Er. O. H. Coldwell, c/o Electrical Norchandising, 259 Lest 39th Street, Now York, N.Y.

Door Sir:-

In accordance with the request contained in your favor of the Stat instant. I am enclosing a photograph of the Electric waving fing procented to Mr. Melson by Mr. Deherty. This fing is mounted on the toner of Me. 24 Smilding of our plant here.

Tours very truly:

Assistant to Ir. Edison.

A/1558.

Main Office: 45 Boutwell Street, Dorchester, Mass.

Mary Johnston Stephen S. Wise Ciste sea Kelles

THE WOMAN'S JOURNAL and SUFFRAGE NEWS

585 Boylston Street, Boston, Massachusetts

Telephone: Back Bay 4717

lvert ffall

n B, Lindsey roline Bartle

Editor-to-Chief Alice Stene Blackwell

while in favor of woman but I criticized the Women of Wah wede expand on sunday.

Mr. thomas A. Adison Asst Orange, New Jersey

Dear Mr. Edison:

In our issue of June 3rd 1916, we printed the inclosed clipping which we re-wrote from one of the Me. York papers. I think the Tribune. Since then the Salem Evoning liews of Salem, Massachusetts has printed a letter purporting to come from you which denies that you over made the statemont, and quotes you to the effect that:

"While I am in favor of Woman's Suffrage, I notice that in states where they have suffrage, they have failed to use their votes to diminish saloons and to correct abuses."

I wonder whether you ever did send this letter to the Salem Evening lews. We shall be sorry if we have quoted you in the enclosed clipping incorrectly. If by any obance, you do think that the women voters have not diminished the number of salcons, and would like information on the matter, I shall be pleased to send you material which I believe is incontrovertable and which must have escaped your notice. In town after town in Illinois, the only state where the votes are now counted separately, the women voted the town dry when it would have gone wet on the vote of the men alone.

Yours sincerely.

AER/S/IF

[ATTACHMENT/ENCLOSURE]

EDISON PREDICTS VICTORY SOON

Inventor Speaks to Federation Delegates About Good Results Where Women Vote

Mrs. Thomas A. Edison gave a reception the other day to the delegates to the General Federation of Women's Clubs, and Mr. Edison made them a suffrage speech.

"It is no longer denied that woman suffrage will shortly be established throughout the United States," says Mr. Edison. "The evidence from the States in which women have voted goes to prove that with the hallot woman are inore fairly treated under the law,' the working woman is better protected, and social and moral improvement is accelerated."

Earle B. Carley, president E. S. McClure, secretary-transition Gov T. A.

The Wheeler Syndicate, Inc.

Telephone {270} Madison Square

Mr. Thomas A. Edison,

Dear Mr. Edison: --

In reply to my note of the trentieth of Hovembert you suggest that there may be a possibility of your synting, to time for an interview some weeks after that data.

by former was a proper to and

I took immense pleasure in reading Mr. Mcrahall's interview with you published in yestrday's Bun. As I aw wholly in sympothy with the views you express in the article, I feel that I and all patrictic Americans was to be congratulated an the privilege vouched ful to them of reading your views on the critical issues of this unpracedinted time. It would give me the ground placemently you could find a way to answer several quantions I should be glad to present to you. What I have in mind is an expression of opinion from you commenced more with the scientific than the political or economic future of the race. In this connection it would be interesting to consider the subject of what the heroic and adventurous was of the future will find for the exercise of their activities if war is eventually done among with.

Earle E. Carley, PRESIDENT

E. S. McClure, SECRETARY-TREASURER

Guy T. Viskniskki, vice-president

The Wheeler Syndicate, Inc.

Telephone {270} Madison Square

--2--

Furthermore, I should like to get from you your opinion regarding the possibility of the innabitants of this planet ever getting into communication with the possibly existing inhabitants of other planets. Six William Healthon remarks the tall we increase the dimester of our knowledge we should the strong-formed of our ignorance. Could we not paraphrase his assertion in those days and say that as we only go the dimester of ur knowledge we increase the romantic possibilities of men's woodemiliahement?

Could you within the next few weeks give me a talk somewhat upon the busis above suggested?

Sincerely,

Edward 5. Van Jol2

CHICAGO HERALD Easy to Road and Worth Reading New York SURGAU, TIMES ANNEX

Er. Thomas A. Edison, Orango, N.J.

My Dear Mr. Edison:---

Day Jam on a company of Experimenting of the + I would have to youth that thing that I ence Dopostor 15, 1916. my mind off a very property.

problem 4 y dont locart to do it till I see drephyliter y cant any

The editor of the CHICAGO SURMAY IMPAND has sent me East in quest of several articles, one in perticular having to deal with you and your valuable originas on matters of public interest.

ACLIFICATION OF THE PROPERTY OF TH

It has been a long time-several years, in fact-since the nowapperciates I represent has had the pleasure of publishing an interview direct from you, and we are hoping that you will afford us the opportunity at this time. A subject of national importance, such as was contained in Er. Marshall's article of last Sunday, or any other matter you might cars to discuss, would be appreciated by the CHICAGO SURMAY HERALD and the readers.

I will be careful not to take up more of your time than is absolutely necessary. Furthermore, my office wishes no to ascure you that proofs of the article will be submitted for approval. I shall be in Now York until Friday evening.

The West likes you, Mr. Edison, and wants to hear from you occasionally.

Yours vory tru

Chicago Heraid

Times Annex,

New York City.

Docember 14.1916.

Lir. Bert Lennen,
Chicago Herald Bureau,
c/o Times Annex,
New York, N.Y.

Dear Sir :-

Ir. Edison requested us to say in reply to your favor of the 18th instant, that he is on a campeign of experimenting, and in order to give you as interview he would have to take his sind off some very perplexing problems. Is does not want to do this until he can see day-light, and just not be cannot say when this will cocker. He without us to say when the would have been a seed to be a see to large the same and the same and the work.

Yours very truly,

Edison Laboratory.

¥/1,599

ICAL NEWS WEEKLY

97-99 Water St., New York | Edward H. Davis Curtis A. Wessel 1 Telephone Hanover 731 Editor

Business Manager

De cembe r 14 th, 1916.

Mr. Thos. A. Edison, Orange, M.J.

Dear Sir:

For the New Year's edition of THE PHONOGRAPH I should very such appreciate an expression from you. giving your view of the trade situation during the year just closing and of the outlook for 1917.

Won't you favor me with about 100 words on this subject? And send it in the enclosed self-addressed envelope, not later than December 20.

with kindest regards and best wishes for a most prosperous New Year.

very truly yours

DHD/SG



MR. EDWARD H. DAVIS

97-99 WATER STREET

December 18, 1916.

EK We away

Mr. Edison:

The attached letter is similar to one sent to Mr. Charles Edison, Mr. Ireton and myself.

paper recently established in Chicago. Trade papers are of very little benefit to us, and we are not advertising in this one. Accordingly I do not think it advisable for us to write them anything for publication. Mr. Ireton and I decided not to do so, and I think Mr. Charles Edison intends to termer the latter he wonatwad. intends to ignore the letter he received.

WM-AH

Markell

C.C. to Mr. C. Edison.



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Supplying Book Publishers and over 200 American News-papers and Magazines, including:

New York, Dec. 10, 1916.

Mr. Wm. H. Meadowcroft, Rdison Laboratory. Orange, N. J.

Dear Sir.-

We see that Mr. Edison is going to pose for the Movies. Would it be possible to permit Mr. Fredricks to make some pictures of him at the same time for publication? Yours very truly.

Proces Illustrating English, Inc.

Docombor 19,1916.

Hr. H. W. Sioriche, President, Press Illustrating Service, Inc., 142 Lost Twenty-Chird Street, How York, H.Y.

Doar Sir :- .

I have recoived your fever of the 18th that and in roply beg to say that so far as I know kr. wisson k not roing to poss for the levice. I should probably be source of it if such wore the fact, but I have not heard a word of any such thing, and he is, so excoodingly busy that I do not think for a moment he would consent.

Allow me to thank you for the copies of the recent shotographs that Er. Fredricks made of Mr. Edison. I am very glad to have them.

Yours very truly,

assistant to Pr. Edison

A/1645.

ELECTRICAL WORLD CORNELS OF THE CONTROL OF THE CONT Wr. W. H. Mondowcroft, Laboratory of Thomas A. Edison, Orange, N.J. Dear 'ir. Mendowcroft: I have worked out the enclosed article from with Hr. Elison yesterday afternoon. Will force him for his approval and correction? the interview I had with Hr. Elison yearbridge disprenon. Elli you please put it before him for his approval and correction to have the province of the provin for your help in making this interview poseible. Mr. Edison has said some things very positively here that I think ought to be said and I hope that their publication in the Electrical World will help to increase the use of electric vehicles. As you know, we are planning to use this is the special issue of the Electrical World dated January 6. I shall appreciate knowing just when we can use this as soon as it is convenient for you to return it, as we have a limited time before the paper goes to press. I am enclosing also with this letter a copy of the editorial which I told you about and which I wrote the morning before getting Mr. Edison's idea. It pleased me particularly to know that I had thought in about the same terms with regard to the electric vehicle that he was thinking. The False

The False

The False

The foliation of the artists of the fair

Should make the tell the fair

Should mist be interested in the fair

of an materialists

of mist be interested.

EVE/HOD

Registered Offices-

38 CURSITOR STREET. CHANCERY LANE,

LONDON. E.C. 83.I2.I6.

Editor & Managing Director: A. R. ORAGE,

Thomas Alvan Edison, Esq.

Dear Sir.

1868

I am recommended by Sir Robert Hadrield, F.R.S. (whose printed article I enclose) to #write to you on the subject of the two enclosed questions on the industrial situation after the War and how to meet it. Sir Robert feels that you might be persuaded, busy though you are, to send me a contribution to my symposium, in the form either of a letter or article, expressing your ideas on the possibility of an after-war partnership between Capital and Labour from the point of view accepted by Science. I might mention that various points of the symposium have been indicated by representative public men. For instance the after-war view on the position of Capital by such big Government contracters as Sir Robert Hadfield, Sir Hugh Bell, Sir Maurice Fitzmaurice, Sir William Denuy, Mr Dudley Docker, C.B. and others. I am very anxious to make the symposium complete by obtaining authoritative expressions of opinion from the point of view of Science. It needs no one to remind me how suited you are by your great accomplishments and practical experience to tell us what the application of science to industry is going to do to replace the present industrial hostility by an industrial partnership. Sir Robert suggests that I should make my appeals on three grounds. First in view of your remarkable article on Science on the Battlefield. Second, that Sir Robert is an old colleag/ue in methalurgical research. Third, that he has been assisting one of the American Commissions sent

Gardny ,-

Day that I have not head time to give the subject sufficient thinght to give an aformion afacing value and beg to 62 excused-

REET, CERY LANE, LONDON, E.C.

1868

ose printed e two enclosed ow to meet it. you are, to of a letter . after-war view accepted osium have the after-war ntracters as Sir William to make the of opinion ind me how l experience s going to do rial partuer-

m three ground.

First in view of your remarkable article on Science on the Esthlefield.
Second, that Sir Robert is an old colleag/we in met/alirgical research.
Third, that he has been assisting one of the American Commissions sent

WELF.

over here to investigate the results of the application of solence to industry, and an expression of ordinion from you on the grave industrial ordists towards which this country is moving, and on the way out, would be a more or less suitable return for his countesy. Apart from this one would welcome the authoritative expression of one who is probably the greatest inventor of our age.

I trust therefore you will honour me.

Most faithfully yours.

Huntly Carder

Symposium Editor, New Age. London.

ELECTRICAL WORLD 239 WEST THIRTY-NINTH STREET NEW YORK

OFFICE OF THE EDITOR

FILE PRIVER

December 30, 1916.

Mr. W. H. Mendowcroft, Assistant to Mr. Thomas A. Elison, Orange, N.J.

Dear Fr. Mendeworoft:

view with ht. Mison. I will present it as on interview in the January sixth issue of the Electrical World I om glad that Mr. Mison caided to the memority in one or two places. I purposely catted the statement he made in regard to garaging feeling that he might not want to make that statement publicly. But it an just as hoppy if he is willing to publish it just as he says it. May I thank you qualified you will not seen the mison when the mison we will be a supposed to the willing to publish it just as he says it. May I thank you qualified you will mison as in making this interview possible.

Yours very truly,

FAF/ACD

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Edison General File Series 1916. Autograph and Photograph Requests (E-16-04)

This folder contains requests for Edison's autograph or photograph and related correspondence. Included are letters from collectors, publishers, news bureaus, photography studios, and educators. Also included is correspondence with Edison's acquaintances and employees, along with distributors of his phonographs and batteries. Among the items for 1916 are letters from Leonidas B. Estopinal, son of Congressman Albert Estopinal of Lousisians; British engineer Arthur Percy Morris Fleming; John Frazer, dean of the Towne Scientific School at the University of Pennsylvania; attorney and former Edison employee William H. Lanman; and portrait artist Jacques Reich.

Approximately 10 percent of the documents have been selected. The unselected material consists primarily of items that received a perfunctory response or no response from Edison.

January 17.

"ya

January 17, 1916.

The International Film Service,

San Francisco, Cal.

Gentlemen:

Replying to your collect Night Letter of the 13th instant:-

Isn't there some way we could examine the 34 pictures of the Edison taken during his 3an Francisco visit? No distike buying them all "sights unseen". Mould you care to send them on for examination or at least proofs?

Kindly reply by letter; we are not so distressed on the subject that enother collect telegram will be necessary!

Yours very truly,

THOMAS A. EDISON, INCORPORATED,

THIRD VICE PRESIDENT.

Mulicersity of Notre Pauce Notre Pauce, Indiana January 17, 1916.

Mr. Thomas A. Edison,

Orange, N.J.

My dear Mr. Edison:

I wish to thank you most sincerely for your kindness and courtesy in causing to be sent to me an autographed picture of your-self. The picture will be framed and will adorn the walls of our Electrical Engineering building.

Thanking you again, and with all good wishes, I am

Yours very sincerely,

Professor in Charge Electrical Engineering Department.

St. John's Military School Sulinn, Munsus

Jon. 21,

Thomas A. Edison Co., Orange, N.J.

Gentlemen:

We have been reflitting and remodeling our Physical and Chemical leboratories and enong other things that we hard are pictures of a scientific nature for the walls. Pending you could give us none of the pictures that you use for advertising.

We would like a large picture of Hr. Edison if possible. A picture of the interior and exterior of the Edison laboratories would also be valuable. Perhaps you have other platures which would make an interesting addition to our wells.

We would particularly like to get a large copy of ir. Edisor's noted short article on eigerette smoking, signed by him, sultable for framing, Our school is opposed to the eigerette habit and this will be a great help to us in impressing on the boys the o'tils of this habit.

ibit. Youre truly, W.L. Sansoli. Nendmaster

7 2 3 / 9/6 -WILLIAM E. SHAW ELECTRICAL LABORATORY Lean Den Mendocraft -Dente you a beter from n. g. Edvin C. Olice an interest (day) friend who lives in Element by and is a mated good a test for the Heart who my Gy. He is good and have the mated for Kings and James or return the article one to get him a friend Helpful of New Street Carte. flelight of mer Street a Edinis which has swall metal grow it at his house Oliver the war will be to the form of the war through the complete the war through the control the control through the control through the form of the first through the first th a start time then Owill ruture it and show you the metal. Calein gon or Edwar Coo have a large freeze of me Edward (One large friends of Mr. Edward Comment of his way friends of Mr. Edward Comment to have one plant Carbonate in many friends Carbonate Mr. Caleful and friend friend and and him had friend women New or friends of him and Olima aurently of his letters. Sam the simewher of the "Dight" Talkling Talifhone it Bel on the greatest mice I amployed in the Ele Weft is Et Edin Plant Have been steer for Win E. Stander Pd Day son wies call for mir Elini

- 1 -7 1916 -WILLIAM E. SHAW, Gr.

ELECTRICAL LABORATORY

Wen. her mendo enoff-

I forgot & all gom about me Toch

when I went opetiting - He is a day mute pletorigh by trade. He has done work for such a man as Col. Roverelt.

If m. Edin his no late flotes,

me Poch will be thought if you can recommend The Edian thing. Istind Im Hutchison knows Mr. Tock -

Mr. Peel trades with both The day and bearing. His busines is at 111.

Operations n-y City (Finity Building)
Kindly be me hour Bur Duck

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January 29,1916.

Mr. N. C. Durand,

Thomas A . Edison Inc.

Orange, N. J.

Dear Sir;

Am sending you under separate cover contact

prints of Mr. Edicon'e vicit to San Francisco, these will

Complete for the state of the second of the

Seting to Hos A Eduson Mr. Frederic Steffungs. New York City

United States Post Office

ULASS

Breenville, S. C. Feb. 2, 1916.

Hr. Thomas A. Edison,

Orange, N. J.

Dear Sir:

I wish to thank you very much for the

photograph of you and my friend Senator Tillman.

rsectfully.

Postmaster.

ESB/DET.

N

WILLIAM N. LANMAN.
HE'S BRAGEWAY.
HE'S BRAGEWAY.

February 8, 1916.

William H. Meadowcroft, Esq., Edison Laboratory, Orange, N. J. (6997)

My dear Meadoworoft:-

I am about to complete the 25th year of my connection with the General Electric interests. I have very pleasant recollections indeed of my entrance into the Edison comp in 1891 at 44 Broad Street. One of the things that has always remained prominently in my mind in the kindly attitude which you assumed towards me in the old days when I was very much of a greenhorn and of this I have frequently epoken to Mrs. Lanman and many of my friends and associates: I have also told you this before but there is no reason why I should not tell you again, because I have always appreciated how you and the other boys at Broad Street took me into the fold and made me one of yourselves.

While I have not for some years been as closely identified with Mr. Edison as I was in the early days, at the same time I have always been proud to be known as "an old Edison man". In calibrating, as I shall do in a small way, this 25th anniversary of mine, I wish to hang up in my library at home a good recent photograph of Mr. Edison. Will you kindly send me a good picture of him and ank him if he will be good enough to attach his autograph to it. I presume you have on hand some photographs or can readily obtain one

WHM--2

from available negatives. If you are put to any expense in obtaining a print for me I shall like to have the privilege of reimbursing you. I have just received my copy of the program of

the Convention of the Illuminating Engineering Society to be held in New York this week, and if possible shall attend some of the sessions. I hope particularly to be present at the banquet at the Biltmore on Thursday evening and shall be very happy if we can get together for a few moments.

Please give Mr. Edison my warmest regards and tell him that I wish him all sorts of happiness, good health and prosperity.

Very sincerely yours,

WHI /C

WHI

Fab. 9th. 1916.

Fr. William H. Leamen, 155 Broadway, New York City.

My dear Mr. Lanman:

I am growthy pleased to receive a letter from you and have read it with a great deal of interest. It is no use talking, tongue does fidget. I am betwore to attack, and don't have whether to say it seems like pectorally, or to tell you that it about like fifth years. I am rather in lined to the latter, because I have grown to know you so well, and to exteem your friendship.

I shall so very greatly pleated to get you a nice pleature of in. Edicon and have him autograph it for you. There will not be the chickest expense, and it will be _ joy and a gleaure to me to get it for you. The only thing I must ask is that you have a little patience, at in. Edicon is on one of his comparigne, and I cannot get his attention to the matter for a little while yet.

I hope to be at the Banquet of the Illuminating Engineering foic ty temperow night, and shall look forward to the pleasure of shaking hunds with you and exhemning a few greetings.

> with kindest regards, I remain, Yours ver, truly,

lat assistant to Thos. a. Edin My dear Mr. Meadowcroft: Lest year I ted some correspondence with you in reference to a large etching which I intended to make of Mr. Elison and add to my series of etchings of famous americans, and regreg ed one or two of the best photograph I could obtain for that purpose. You wrote me on the 22 - of march 1915 that you referred my letter La Mrs. Edison, asking her Lo melisale ter choice of photographs. as I have not heard from you nor from Mrs. Edison, I thought of wish again and ask you if you have had any suggestions in the matter from Mrs. Elicon suggestions in the matter this au important portain of mr. Edison I am greatly desirous to have the best material as a basis, before proceeding

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and of
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COVER THE HOST OFFICULT ASSIGNMENTS 1482 BROADWAY AT 435 STREET

New York, February 14, 191-6-

Mr. W. H. Meadowcroft, C/o Edison Company,

South Orange, N. J.

Dear Sir;-

We hope you will find it convenient to have us send an operator out to make the photographs of Mr. Edison and the set of Encyclopaedia Britannica, about which Mr. Patton of that company spoke to you some time ago. We know that Mr. Esison is very busy, and you stated that you thought after the holidays he might find time to have the pictures made.

Oeuvre Internationale pour Blessés et Prisonniers de Guerre SECTION BELGE

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COURTS BELOW DOE LA HAVE

et de S. A. S. A. Paincesse de Licor de La Contesse Pri. 1/Outsteinent de La Vicontesse André Sincom de La Japonne de Tolux de Warten

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ANQUIERS À LA HAYE: SCHEUELEER & ZOONES. Parkstraat 73*

La Haye, le 21 février 191 6.

Monsieur Thomas Alva Edison

Menlo Park.

NEW-JERSEY. Etats- Unis.

Monsieur.

La Très Haute Bienveillance que vous avez toujours bien voulu témoigner à la Belgique nous invite à vous présenter notre requête respectueuss.

Nous avons fondé à la Haye une Section Belge de l'Oeuvre Internationale pour Blessés et Prisonniers de guerre.

Le but de nos efforts est de réconforter moralement nos braves soldats, internés en Allemagne et de leur envoyer des colis de vivres, qui tout ensemble adouciront pour eux les rigueurs de la captivité.

quand après la fin de la tourmente qui bouleverse l'Europe, la paix sera rétablie, il faut que ces jeunes gens nous reviennent vaillants et forts et travaillent avec nous à la grande tâche de refaire notre Patrie, aussi belle, aussi prospère qu'elle l'était jadis.

Vous n'ignorez certainement pas, Monsisur, que nos ressourcessont limitées et que nous devons nous ingénier pour trouver les moyens d'alimenter notre Geurre, de lui permettre de vivre jusqu'au bout.

Nous avons donc pensé pouvoir organiser ici une exposition et uns vente d'autographes.
Nous venons vous prier de nous aider à réussir en nous envoyant

un autographs.

Nous sommes confiants que votre Hauts Bienveillance accueillera favorablament notra requête. En foi de quoi nous vous prions d'agréer l'hommags de notre plus profond respect.

Le Vice-Président:

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No. 1 South Broad St. ATLANTA, GA. February 23, 1916.

Thomas A. Edison, Personal Edison Labratory, Orange, New Jersey.

Dear Sir:

I have received notice that I am a prize winner in the Diamond Disc Advertiseing Contest and I wish to express my gratitude direct to you.

I was until the first of the year connected with your Dictating Macinne Division and am now selling these here in Atlanta. Present sales and future prospects are excelent indeed.

If consistent, I would appreciate a signed photograph to place above my desk in my Pictating Machine Demonstration Office.

With greetings, and wis ing you as long a life as you yourself desire, I am

Respectfully,

Respectively interest of the following prise of make the following prise of the fo white

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147 WEST 48TH STREET, NEW YORK March 1, 1916.

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GUSTIELMO MARCONI FREDERIK VAN EEDEN

f----

My dear Mr. Meadowcroft:

Evidently the pictures of Mr. Edison and Dr. Butler that I mailed last summer for Mr. Edison's autigraph were lost in the mails, as we cen find no trace of them. I am sending under the cover two other photographs, and will deeply appreciate if Mr. Edison will be willing to autograph them under his picture. After which, I will ask Dr. Butler to do likewise.

Thanking you, I am,

Mary B. Custan

Mr. William H. Meadowcroft, Orange, N. J.

M. Edwar

Just your autograph on each of these 2 piolures, unson

Muchon Schools (Machanical)

WILLIAM E. SHAW ELECTRICAL LABORATORY WEST ORANGE, N. J. S SHEPARD TERRACE In Home Historical Standards yours of Jan 25, 1916 It is with aincre thanks of with this k you for Jump me a for photopoft of One Column for Jumple of Man Dack the Jumple of accessing Mr Edwar with his whene on the floto which he gave me and that I have ofoken I gru f. my drop friend, the gold artist tran copied a small picture from that photo, so that he can get The found and outlines of Mr. Edison's face which he is now enguiney a medal. when he is through with it well show it to gone But are me. Edian, is Thomas alva Jo Willi

march 16 1916

January of the state of the sta Edin 101. alember Groben Bell han artographed one of his by flow on me go happened to be my birthday march 7#1916. He said he homed hope to visit my laboratory at my bown wich mers Bell at some future time. O hope they will come sometime in Very truly Jours W. E. Shaw If you are too busy tricky iftering you

march 17 1916

WILLIAM E. SHAW RIECTRICAL LABORATORY

S SHEPARD TERRACE

by see Mr. Edward grange grantering and granter of flower the stand for many much for the stands for many much for the stands of many many flower that the flower than the stands of the stands of the stands of the stands of the second of the

M' relisor He works for Laryley - He is stone deaf and is working act the time for deaf people to lech them. Meatowerfe

To

WILLIAM. E. SHAW

"The Now" Encyclopaedia Britannica

Lublished by the press of the

University of Cambridge, England

120 WEST 32ND STREET NEW YORK Murch 18, 1916.

Mr. Thos. A. Edison, Orango, New dersey.

Attention of Mr. Meadosoroft.

Dear Sir: We are in receipt of your favour of March 16th addressed to Mr. William Patten, advising that you have returned the set of Encyclopaedia Britannica, for which please accept our thanks.

Yours truly,

THE EMCYCLOPAEDIA BRITANNICA CORPORATION

AMS-XG



NEW [HTH) EDITION PRINTED ON INGIA PAPER

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Mr. Edison
See allerties
Corresponder Cont.
my meatowers)

Merch 29th. 1916.

H. ... Johns-Manville Co., 259 Halsey Street, Hemark, H.J.

Gentlemen:

Your letter of the 18th instent to the adicon chemical Lorke, with photograph of ir. Edicon's chemical plant at filter lake has been handed to me. .r. Edicon is in Florida, where he has gone for a fet media vacculion, and we chall have to communicate with him in regard to your request.

I feel too are round to be disappointed, as ar. Addition are nitherto refused certifiedly to permit the publication of any photographs of his consider works. However, I will cond down your lette, and the publication to him and wee that he cays.

fours very truly,

assistant to Mr. Edicon.

HOUSE OF REPRESENTATIVES U.S. COMMITTEE ON NAVAL AFFAIRS WASHINGTON, D.O. FINEL 350 Machon so I. Exis mot rough To. My Seas M. Edison-2 wrote you familia caking four to send me your intagraph a Crewdin of love lux lutography nor Itting up in letter form personal kuperke and a Jailed to get a bedrain my letter to land, and 2 a Course why the though the unfarem way me aller jains to rech for on may misplaced in so way, and I present so much that of Elways wanted In Centagraph Con my Collection, I Lave Precident Free

THE PRINT CHARGE.

LEVELY, A PERSONNELLE, LEVELY, LEVE

HOUSE OF REPRESENTATIVES U. S.,

the brenduth archael and own a number of the promised in my Callestion, I ame a son al leneral Estophical a members the moral Committee of the house your the most the forest town and pleasured meting an archaet time ago a len your approved before the committee, much a facultation with some little your auto graph to spel with some little your auto sure a sur with light report and kindled michaely with light report and kindled michaely. Unspielely yours.

Jacques Reich New Dorp, Staten Island New York

gre mes

April 8, 1916.

Mr. Wm. H. Meadoweroft, Orange, N.J.

My dear Mr. Meadowcroft:

I wish to thank you for the photograph of Mr. Edison which you sent me, and which I received a day or so ago.

I note from your letter that Ers' Edison is now in Florida and is not expected back until some time next month. I shall bear this in mind, and write you again about May 15th, when I hope that it will be possible to arrange for an interview.

Yours very truly,

Jacques Peic







H.W. Johns-Manville Co





ESTABLISHED IOSE NEWARK OFFICE, F. R. AUSTIN, MANAGER 239 HALSEY STREET

> NEWARK, N. J., April 11, 1916

The Laboratory of Thomas A. Edison, Orange, N.J.

Dear Sir: - ATT: MR. W. HEADOWCROFT, ASS'T TO MR. EDISON

We are in receipt of your favor of the 7th and we regret that Mr. Edison cannot see his way clear to allow us to use the photograph of the Edison Chemical Works, but would it not be possible for us to use the photograph that we have of the Phonograph Works?

Thanking you in advance for your early advice, we are

Yours very truly,

H. W. JOHNS HAPVII

OFFICE.

WJO: W

AUTA ACCESSORIES AUTOMOBILE HORNS AUTOMOBILE CLOCKS BRANE UNING CARRUNETORS ELECTRIC LAMPS HEAGLIGHT LENS SPECCOMETERS SHOCK ABSORDERS SPARK PLUSS TIRE PUMPS TIRE AND TEP REPAIR MATE BUILDING MATERIALS ARCHITECTURAL ACQUISTICS ASBESTOS SKINGLES ASSESTOS MODE ASSESTOS STUCCO ASSESTOS PLASTER CORN FLOOR TILING MASTIC FLOORING PLUMBING SPECIALTIES REGERGS FOR ALL PURPOSES ROOF COATING WATERPROOFING INSTRUCTIONS MATERIALS CORE INSULATION COLO STORAGE INSULATION HASULATING FELTS HEYSTONE HAIR INSULATOR MINERAL WOOL SOUND BEADENING FELTS POWER PLANT PRODUCTS ASSESTOS, RUBBER AND MECHANICAL PACNINGS BOILER PRESERVATIVE CEMENTS FOR HIGH TEMPER ATURE, IRON, ETC. FLEXIBLE METALLIC HOSE PIPE AND BOILER COVERINGS RUBBER HOSE STEAM CONOUT SPECIALTIES ASSESTOS TEXTILES AIR ERAKE EXPANDER RINB ASSESTOS MOVINO PIETURE MACHINE DOOTHS ASSESTED TABLE COVERS ASSESTED TABLE MATS ASSESTOS THEATRE CUNTAINS FIRE ENTINGUISHERS FIRE EXTINGUISHERS REFRIGERATING MACHINES STOVE AND FURNACE CEMEN STORE AND FURNACE CEMEN ELECTRICAL PRODUCTS DAY BATTERIES EBONY ASSESSOS WOOD ENCLOSED FUSE DEVICES ELECTRIC LINDLITE AND BULD LAMPS FIDRE CONDOUT FRICTION AND DUDDED TAPES FRINK REFLECTORS AND LIGHTING FIXTURES CONSTRUCTION DEPT FOR APPLYING J-M MATERIALS 12421447

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ILLUMINATING GLASSI INSULATING MATERIALS LINE MATERIAL SPONET HETED PROTECTIVE DEVICES SERVICE, SUDWAY AND TRANSFORMER BOXES

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Arril 12th. 1916.

H. W. Johns-Manville Co., 239 Halsey Street, Hewark, H. J.

attention of Mr. L. J. Osborn

Gentlemen:

herlying to your favor of the 11th instent, let me ask whether it would not be extisfactory to you to wait until Mr. Edison returns from Florida. It is our constant atudy to eliminate every item possible from his meil, and unless there is extreme urgency in this cuse, I shall be very reductant to ask his attention to the matter. I expect him to roturn within the next two or three weeks, so the delay is not a great one. In the meantime, you might codd me c copy of the photograph of the Phonograph torks. I mean, of course, the photograph that you wish to use.

Your very truly,

assistant to Mr. Edison.

May 2nd. 1916.

H. N. Johns-Menville Co., 239 Halsey Stroot, Newark, N. J. Attention of Mr. Osborn.

Dear Sir:

Referring again to your favor of the 11th ultimo, Mr. Edison wishes me to state that he has no objection to your using the photograph that you have of the phonograph works.

He still adheres to his decision that he objects to you using the photograph of the Edison Chemical Works.

Yours very truly,

Assistant to Mr. Edison.

UNIVERSITY OF PENNSYLVANIA PHILADELPHIA

TOWNE SCIENTIFIC SCHOOL

May 15, 1916.

Mr. W. H. Meadoworoft, Asst., C/o Thomas A. Edison,

Orange, H. J.

My dear Sir:

In accordance with your letter of March 27th, may I ask you if you will be good enough to bring my letter of March 24th to the attention of Mr. Edison?

Very truly,

Rusafle

[ATTACHMENT/ENCLOSURE]

UNIVERSITY OF PENNSYLVANIA

TOWNE SCIENTIFIC SCHOOL

ANIA Tyle Tweet

Mr. Thomas A. Edison,

East Orange, N. J.

My dear Mr. Edison:

I am writing to ask if you will present to the Dean's office of the forme Scientific School of the University of Pennsylvania, a photograph of yourself, bearing your signature.

I feel that it would be especially appropriate for the School to possess such a photograph, and I am quite certain that it would be greatly appreciated should you consent to present it, and I hope very much that you may fuel disposed to do so.

Incidentally, I am endeavoring to complete the collection of photographs and autographs of the Professors she have been at the head of the various Departments of the School, and I find that I have none of the late Professor Marks, who, I understand, was a personal friend of yours. I venture, therefore, to ask if you can tell me through whom I could secure a photograph of him and his signature.

Very truly,

accornage only

Dean.

THE CHAMBER OF COMMERCE OF THE U. S. IS CO-OPERATING WITH US



Tariff Commission League

OBJECT—To carry ferward a nation-wide campaign of obsession which will demand of Congress the creation and pressuount maintenance of a non-partiasm Taciff (nontainin of the highest pressuoet, which shall be given the breakeds powers passible unjet afte Constitution, to the end that taciff environment shall be based upon accretained facts and to far the interests (pp ALL VIII) PROFILE makes them for publicate carefiliery.

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SAMBER C. SCOTTEN HOWARD H. Gross

LEPHONE CENTRAL 60

May 19, 1916.

Mr. Thomas A. Edison, Orange, New Jersey.

My dear Mr. Edison:

to be one of our Advisory Committee upon invitation of our Board through Mr. Ryllesby? Our example is now nearing a successful conclusion, and we have decided to place upon the walls of our office autographed photographs of a number of our most valued friends. We should be delighted to have a photograph of you to place alongside of one of our very good friends, kr. James J. Hill.

Your name has been a great help and inspiration, and I wish personally to thank you for being one of us.

Sincerely yours.

A SE OZS

autograph only

UNIVERSITY OF PENNSYLVANIA PHILADELPHIA TOWNE SCIENTIFIC SCHOOL

IOHH PRAZER, DEAH

May 24, 1916.

Mr. W. H. Meadoworoft,

Edison Laboratory,

Orange, N. J.

My dear Sir:

I beg to acknowledge, with thanks, the receipt of your letter of May 23rd, and also of the photograph of Mr. Edison.

Kindly convey to Mr. Edison my warmest thanks for his courtesy in presenting to the Towne Scientific School his signed photograph, and assure him that the same will be very much appreciated.

Thanking you for your courtesy in the mat-

ter, I am,

very truly.

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Dean.



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CONSTRUCTION DEPT FOR APPLYING J-M MATERIALS 1210670

ASSESTOS-

H.W. Johns-Manyille Co.

Madison Avenue & Hst. Street









New York May 27, 1916.

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45

Thomas A. Edison,

Orange, New Jersey

Attention of Mr. Meadoweroft. Dear Sir:

We have had a little correspondence with you in regard to using an illustration of the phonograph works in one of our catalogs. Your letters on this subject were dated April 12th and May 2nd.

It was agreeable to you that we use pictures of the phonograph works, but not of the chemical plant. In this connection we are attaching printed proofs of the catalog pages and in order there will be no possible misunderstanding, we would thank you to look over the two illustrations which are attached and let us know whether or not these are the phonograph works as we believe them to be.

In view of your permission to allow us to use a picture of the phonagraph works, but not of the chemical plant, we are specially anxious that there by no misunderstanding on this point.

We would appreciate it very much if you would be kind enough to pass on these illustrations Monday and re-Anna smoogh to pass on these limitatations Monany and re-turn them to us with your reply, as we are already to go to press as soon as this point is settled. You will understand of course that these are just rough printed proofs and that the plant will show up much olearer and better in the actual printing.

Yours very truly,

H. W. JOHNS-MARKILLE COMPANY,

Advertising Department.

care return

ns subject to change without notice. Estimates limited to thirty days acceptance liable for failure to perform caused by strikes, fire or earthing broad our control

June 13th, 1918

Edison, on Laboratories, East Orange, M.J. mr 1916 9692

Dear Sir,

In January last I called on you and you were good enough to discuss with me various phases of industrial research work, and you described some of the research investigations you have carried on in your own laboratories.

During my short stay in America, I visited a number of the leading research laboratories, and I have recently been requested by one of our Government Departments (Advisory Council for Industrial Research), to prepare a measurandum embodying the results of my observations.

From most of the laboratories I visited I have obtained photographs of interior and exterior views, with descriptions of equipment and some idea of the character and magnitude of the research work undertaken, in many cases supplemented by cost of equipment, buildings and annual maintenance.

My object is to convey an accurate idea of the magnitude of the reaserch work undertaken in these different laboratories, rather than specialised information which, for commercial reasons, it may be undesirable to disclose.

While all industrial people over here are familiar in a general way with at least some of the many phases of your work, hardly any can form a conception of the magnitude of the operations conducted in your research and manufacturing laboratories.

I write to sek whether you would care to furnish me with any particulars, and especially photographs, which would serve the purpose I have in view.

I should such appreciate any assistance you feel able to give me in this matter.

Yours faithfully, COM & Lenning

He hange Rock Crusher the hange Rock Crusher the hange Rock Crusher the hand allow the formand the St. S. Edwin, (1693)

When Sin: I formed on our please here a formal storm with terreposite and neument took it to show at the New. and they Museum.

It had to rather a remark.

It had to rather a remark.

It thing: Do Dance asked must to perpare an explaint

of trap- and he told me you I traprock roadmaking. had interested him in that Than had to add other and had invented crushes materiale, and are give He has made an appointment the quological origin or for mer to go to the Millington lornation of each. Quarry this week. Than etudied geology Than already written to from a child so that beent a crusher Company for is comparatively early, and pictures, but would like Dr. Henry B. Wilmmel, The in addition pictures or Mat. Geologist and Mr. James models of the first, or rather, I saubour have given min booker: Gaological atlas, reports etectione your crusher. any thing of Col. James & soward; Me. Ira. that cost will be of the great-Howell, city augineur and Mr. est interest. The best of care Charles Whiting Baker, Editor will be taken while them ingineering hime an ales inand in returning. tirested and helping. Mr. C.W. Baker proposed 633

ending it with a ecuie feature so Yam getting photographs etection of the Colum. bian Highway, Origon. The Palisades Park Road; Lincoln Highway, and aganstrassa, and, before Mr. lepton muitai ed the crusher, we thought of the moving picture part of roads, and Ewas going to ask you if any thing could be down about that. It is difficult to exactly uplain our purpose in writing Could you spare nu à few minutes called to see you at your

office or hour? Than an appointment with Col. E. a. Sterre Ind. needay at Hoboken, and do not know what day Mr. lepton will want mu to go to Millington so it would better be the first of myt weék. If you have any thing in crushers or moving pictures me will be very glad and greatly obliged. Justruly your lizabeth F. Colburn July suruteut.



I have a favor to ask of you--

The old soldiers of Waterloo, Iowa, have an unusually active G. A. R. Post there considering the fact that the Boys in Blue are getting pretty old.

The City of Waterloo, and the various organizations that are affiliated with the G. A. R. between them provided the Old Soldiers with what is known as a G. A. R. Mewordal Hall. The City furnished the plott of ground and the builting was reised by subscription.

not long ago Mr. Edison in the goodness of the heart saw fits to agree to write them his personal check for about \$35.00 or \$80.00 that program of the posterior about \$35.00 or \$80.00 that of copy the whole about \$45.00 or \$80.00 that of the post of the same about \$45.00 or \$80.00 that of the same about \$45.00 or \$80.00 that \$45

Ownes made it a point to call on these old Soldiers to see how they were pleased with their instrument and to favor myself by eseing their plant.

I cannot begin to tell you of the wars apot that Mr. Edison holds in all of their hearts because of his genorosity, and He wish was expressed to me by one of the "boys" that they rished very much to have an autographed potrarit of Mr. Edison and I made a mental note to ese if I could not secure it through you for them.

This G. A. R. Memorial Hall is devoted to things military, but they told me that if they could get a picture

of Mr. Edison, that it would occupy a place of honor on their walls.

Do you suppose that you could arrange for me, to have such a picture supplied and have him inscribe with his own hand about the following--?

"To the Boys in Blue of Waterloo, with greetings from Thomas A. Edison"

This certainly would be appreciated by me as a personal favor.

On the other hand if you feel that I am over bold in making his request I shall deem it perfectly proper for you to decline my request if circumstances should necessitate your doing so.

With my own kindest personal regards, I am,

Very truly yours

GCS.ESS.

cont

Change apage consort

See above

FRANK MANLY. DENNIS BARRETT, SEC. AND TREAS.

Board of Public Education

S. B. FELKER W. C. MCOHEE

P. B. FITE

DALTON, GA., Sept. 28th. 1916 191

The Edieon Talking Machine Company

Gentlemen: -

We are anxious to get a good life size bust portract of Thomas A.Edison to hang in the rotunds of our new Fublic School building a condeal of pains to nicely decoming the lastic are taking a good deal of pains to nicely decomined by the lastic and thow of a more inspiring both and if you can put us in the way of contract to the condeal the last of the

Yours very truly Frank Man ly
Chairman Board Public Education
City of Dalton Ga Mr. Mendowerot-

ALBERT W. ORTON, President and Tressurer Rome Box and Lumber Company Packing Boxes Shooks I wish to thank you Times and the 110 milla, Report Copinteresting entertainent It you bland in Date with I form one flace in your the pictures were taken of the My Edican Laggeted one by taken of the gay Mus Edican Laggeted one of position I me very Timber the 10 Del mil of malors. I me very mos to have one ofthere & you come took auxor " it. mitteen Mr Carnegie Jone time up prize one of me the soll Some time up prize one of me the Igmal Chur sent me their photograph If there is my may my buy mishes to you ?

October 5, 1916.

Mr. Luder:

willyou please let me have one of the group pictures of the U. S. Military Telegraph Corps. This is the small group. You will note Mr. Edison says this gentleman can have one.

W.H.MRADOWCROFT.

lille

October 15, 1916.

Mr. Albert .. Orton.

Rome, New York.

Dear Mr. Orton:

I have received your note of the lat instant, and an glad to comply with your request by conding you a copy of the group photograph of the J. S. Hilltery Telegraphers.

I am glad that we have gotton an opportunity of photographing this group.

unity of photographing this group.

Thanking you for your good wishes for

myself and wife. The are heartly reciprocated.
Yours very truly,

THE WESTERN UNION TELEGRAPH COMPANY



On the occasion of the meeting of the "Old Timers" at your place, I was fortunate to be present as one of the "Old Hilltery Boys", from Washington, and was more fortunate, which I appreceiated to the fullest extent, in being in a group picture with yourself.

I have been wondering if it was possible for me to obtain a copy of that picture taken by your photographer. I would consider it a very great favor if you would try to obtain a copy and mail it to me.

I remain,



ALBERT W. ORTON, President and Treasurer

w nr oss nu LINGS. Vice President and Secretar

Rome Box and Lumber Company



Baled Shavings





Office and Factory No. 1, Carul and Am Streets Factory No. 2, E. Doninick Street

Mr. Thomas A. Edison, Orange, M.J. Dear Mr. Edison:-

Dear Ir. Misch:

I wish to than' you for the Photograph of the old Timers
and U.S. Military Colerraphor Operators which you sant no and which looked
re good to no. If you have now much I will prize it you would be regule
for your interest and the lotter you sent pleased no very much.

I helieve we agree on a good rany things. We night differ on our politics this fall but I don't want to argue this for we are always to be good fracade and Commades.

Verytruly you

Man M. Color

October 20, 1916.

Mr. R. b. Bender, c/o Western Union Telegraph Co... Washington, D. C.

Dear Sir:-

Replying to your favor of the 16th instant, let me say that there were two group pictures taken of the "Old "deser" on the occasion of their vicit to ay laboratory recently. One was of the outler party, and the other are a smaller group of the 'Old Military Telegraphore".

These photographs were made by Indexwood & indexwood, indexrephers, 417 Fifth Ave. New York City, Mr.Y. I think that the would be able to supely you with a copy of the photograph of either one of these groups.

Yours v r; truly.



The Hotel Beautiful CLARK ST NEAR JACKSON BOULEVARD

Chicago, Dec. 8, 191

Mr. Thos. A. Edison, Orange, N. J.

My dear Mr. Edison:-

You will perhaps remember the Assistant Manager of the Plaza Hotel, Max Thomsen, who had the pleasure of making your acquaintance, and also had the honor of looking after your accommodations for your last European trip, when we met in Paris at the Majestic Hotel. On your return from the trip you were kind enough to present me with one of your autograph photographs, which I still have in my possession and hold in very high esteem.

A close friend of mine here in Chicago, Mr. Herman Hahn, President of a large commission house, has begged me to write to you to present his son who is a civil engineer, by the name of Herbert Hahn, with one of your autograph photos. His father tells me that this is his life ambition, and his father is very anxious to help the boy realize this ambition as Ohristmas is now approaching .

I told him that I would ask you to do so, and that I was quite positive you would grant his request, which will be highly appreciated by all of us.

I am here in Chicago to build a new Hotel on the style of the Plaza, New York, which is to be located in a most ideal spot

#2.

on the lake front, and a special feature will be an up-to-date electric grill, as I have a very good friend employed in the Commonwealth Edison Company who has promised to assist me with this feature. The hotel will be opened about September 1st, 1917, and I will take the liberty of sending you some literature on this beautiful place in hopes that I may again have the honor of your patronage when in Onlongo.

Wishing you and Mrs. Edison A Merry Christmas and Happy New Year, I beg to remain, with kindest personal regarde

Yours very sincerely,

Manying sure star

P. S. Mr. Herbert Hahn'e addrese is 6739 Newgard Ave., Ohicago. Should you prefer mailing the photo to me, kindly send it care of the Kaiserhof Hotel.

Decombor13,1916.

Er. Hex Thomson, c/o Alisorhof Hotol, Chic.co, Ill.

Dear r. housen:

to ir. Editon has received and brought to ir. Editon has received and brought it to his attention at once. To and autographed a phato for ir. Editors takin, in accordance with your request, and I am mailing it to you make your request, the covin, be that you may have the opportunity of greatath if it.

lir. -dison is outremely busy on some opecial experiment and has re-mested me to write this letter for Liu.

He wishes me to extend it his scholf his wishes to you for a Herry Christmas and a Happy liew Year, in which I boy to be allowed to join.

Yours very truly,

.. seistant to .r. .dison.

4/1691.

Docomber 27,1916.

Mr. Max Thomson, c/o Knisorhof Hotol, Chicago, Ill.

Doar Mr. Thomson:

note, and I hope you will accept it in the spirit in which it is written.

unred from Chicago, and told no that he swe in.
Editors into prominence and told no that he swe in.
Editors in the open in macribed to you standing in a
special property of the control of liquot, ote.
In rether think that you may have a
lamo of thin, as I as sure you will not think it a
dignified place for a photograph of in. Editon inserthed to yourself, and I Licaght I would drop you
acribed to yourself, and I Licaght I would drop you
poople orticated it in in. Editors be preceded precence.

Vishing you the Compliments of the Season, I remain.

Yoursvory truly,

assistant to Hr. Edison.

1-17776

Edison General File Series 1916. Automobile (E-16-05)

This folder contains correspondence about Edison's personal vehicles and about automobiles in general. The correspondents include chief engineer Miller Reese Hutchison, A. William Almquist of the Edison Storage Battery Co., and Andrew L. Riker of the Locomobile Co. of America.

Approximately 10 percent of the documents have been selected. The unselected items consist primarily of order slips for parts.

Alteration . would be

May 31, 1916.

Mr. Edison:

as you are aware, the right rear wheel of your Samplex came off recently, due to breaking of the outside ball bearing.

Such accidents can only be sageguarded against by regular inspection of your car, at which time all spring clips, nuts, when bearings, etc., should be gone ower.

Alaquist tells me that he requested Ere. Edison about six weeks ago that she send the ear down to the Laboratory about once a month for inspection, but this has not boan done, because the car has been vor, busy.

S locomotive is thoroughly inspected after each 250 miles service, and it is running on rails. An automobile should be inspected at least once a month.

M. R. HUTTRITOR.

NEW YOUR HOSTON PHILADELPHIA HALTIMOUR

ocomobile

COMPANY OF AMERICA EXECUTIVE OFFICES & WORKS , BRIDGEPORT, CONN.

BRIDGEPORT, CONN. Juno 16, 1916,

Just ordered a decommende Limorine Company wanted

Orango, How Joroey. dead Elearence

My dear Mr. Edison: The Simplex pelople in a property of the street of t mas satisfied the clearance for your media. If you will be good enough to advise me just what clear-ness you desire, it is possible we may be able to meet your wishes in this respect.

Awaiting the favor of your reply, I am,

Yours very truly,

. .

1N

THE GREENE MOTOR CAR CO.

R. A. ORKENE, Produce E. A. ORKENE, Transport

NORTHKUN NEW JERUET

90 WASHINGTON STREET

Tell him I found a new demploy of the all lyes of the all lyes of hours bought it, they prome

Dear Sir:-

Hr. Thomae A. Edison, West Orange,

I beg to thank you for your order for a Locomobile
Limoueine. The trim of this car will be arranged to Mrs. Edison's
eatisfaction in the next day or so.

At the time you decided on the Limonoise, I epoke to you about making a comparison of the Locambile clearance and your Simplex clearance, and since that time have been thinking that for the clear of travel you described to am, and over the roads you can you want to use the car, a car equipped with a court road you can you want to use the car, a car equipped with a court but placing of blocks of about 2.12 to see that the court was the clearance of approximately 16 to 20 inches and since you are fond of a chain drive car for the carrier, I roundisaggest that the 1911 Simplex in carrier for your workshe concidered and robuilt I live year. The carrier was the concidered and robuilt in the may. I have year-courted man would be given the the carrier was the concidered and robuilt in the cast of the carrier was the continued and california mining continue and am positive that with the above arrangement, ample clearance would be given for any road in the castern part of the United States.

Our even-possenger touring ours for service shout your works, we would be glad to handle the author of the reconstruction of the Simplex, as outlined, if you care to take core of the spence in the matter, which I would estimate roughly to amount to between \$100.00 and \$1300.00.

In addition to the above, we have received a letter from our footory, giving ue copy of the letter written you by our Hr. Riker, and if you have considered our car in connection with your service. I imagine Hr. Riker would be glad to work out anything within reseon for you.

If you care to make an appointment when I can see you and talk the matter over, I will be very glad to hear from you and meet you at any hour of the day convenient.

Thanking you kindly for your order and hoping to hear from you on the above matter, I am

you on the above matter, I am Youro very truly coupany.

OSB: K OSB: K Sales Dept.

CAR CARS OPERATOR OF TOM EMPORES SHY AT COMMENT HER AND REPORTED. WE AM INCIDENTIFICATION. Sales Dept.



JOHN G. DALE,

SIMPLEX AUTOMOBILES

NEW YORK,

Mr Thomas A. Edison, Orange, H. J.

Dear Sir:

As por my agreement, if you find that the oleanence of your Simplex touring car is not sufficient, I will block up the springs to increase it, at no additional charge.

Yours very truly,

71.7. Politon,
for John G. Dele.

rrup# o

Orcel con for 1/3/1/

File

July 28, 1916.

Mr. Edison:

I believe the following report will be of interest to you, re. the Ford auto that was overhauled in the Ford Service Flant in Long Island City two weeks ago.

I have now taken the engine down, and find it has been incorrectly assembled, and two cylinders so badly burned as to make them absolutely useless. The gases, when compressed, shoot into the orankonse due to the scorching of the cylinders, and the engine cannot be started when it is warm.

We have telephoned to the Ford Company, requesting that they send an inspector here to witness the overhauling job done by their company at a cost of \$135.92.

This car has been run 24000 miles in one year, which you realize is rather unusual for any car.

This car was taken out of my hands and used in Silver Lake, and has not been in the company's garage day or night for more than five months.

The attached correspondence regarding this car will be of interest. Please return same for my files, after you have finished with it.

Respectfully,

A. W. ALLIQUIST. All Almquist

M. Edison see Coverpoineme Cultaches Measowart

Oct. 4, 1916.

Mr. A. .. kiker, locomobile Co. of America, Bridgeport, Conn.

Dear Sir:

This is to confirm night letter cont you by Dr. Hutchison, via Western Union last evening: MR. EDISON SAYS PERASE HAVE WESTINGHOUSE AIR SPRINGS PUT ON THE LOCOMOBILE .. INCUSING HE ORDERED.

E. R. HUTCHISON.

The above in, I feel, self-explanatory. Respectfully,

CC-Kellow

HOSTON PHILADELPHIA HALTMOHE WASHINGTON GINGINNATI

Locomobile

COMPANY OF AMERICA

EXECUTIVE OFFICES & WORKS, DRIDORPORT, CONN.

CHICAGD
PHTSHUHGH
MINNEAPOLIS
SAN FHANGISCO
GARLAND
LOS ANGELES

BRIDGEPORT, CONN. October 5/1916.

Er. Eiller Reese Hutchinson.

Orange, New Jersey.

My dear Hutchingon:

I am in receipt of your favor of the 4 and would start with Taylor Latter of the 3 inctant and would star production to partment that Wastingbouse Air Springs can be installed on the car which like. Edson hige on order, without any delay in delivery, and f have issued instructions that this installed by be sades.

Yours very truly,

a.L. Rika

Vice-President

music pot

Edison General File Series 1916. Aviation [not selected] (E-16-06)

This folder contains unsolicited correspondence requesting Edison's advice, assistance, or opinion on matters related to aviation. The correspondents consist of aviators, inventors, enthusiasts, and journalists. Some of the items pertain to Edison's role on the Naval Consulting Board. None of the letters received a substantive reply. Many bear a notation indicating that a form letter was sent in response, stating that Edison did not consider the inventions of others.

Edison General File Series 1916. Bates Numbering Machine [not selected] (E-16-07)

This folder contains correspondence with F. H. Stanard, a traveling repairman who offered Edison his ideas on improving the Bates '7-movement' numbering machine manufactured by Thomas A. Edison, Inc. There are also interoffice communications among sales manger F. A. Burnham, assistant chief engineer John P. Constable, and vice president Carl H. Wilson regarding their decision not to pursue Stanard's proposition.

Edison General File Series 1916. Battery, Storage - General (E-16-08)

This folder contains correspondence and other documents relating to the technical and commercial development of Edison's alkaliant sotrage battery in the United States and abroad. Among the documents for 1916 are numerous testimonial letters, which Edison solicited from customers after an explosion aboard an E-2 submarine in the Brooklyn Navy Yard in January raised questions concerning the safety of Edison's batteries. Related documents can be found in E-16-22 (E-2 Explosion).

Also included are items pertaining to negotiations with Vickers, Ltd., concerning British manufacturing rights. The correspondents include Edison's chief engineer, Millier Reese Hutchison; longtime Edison associate Samuel Insult; John F. Monnot of Edison Accumulators, Ltd.; and mathematician and electrical engineer Charles P. Steinmetz.

Approximately 50 percent of the documents have been selected. The material not selected consists primarily of letters of transmittal and acknowledgment and unsolicited correspondence that received no substantive response from Edison. CENTRAL COMMERCIAL AND MANUAL TRAINING HIGH SCHOOL NEWARK, NEW JERSET

12g

Mr. Thomas A. Edison West Orange, N. J.

have) the Cano explade

Hy dear Hr. Edison: the Cause is due to failure to

I that it might be if discovered to you to know that long of your atcomes that the form of your atcomes that it is not provided, about a week ago. This seem in any party as I not find out of reduced during the chersing of the hitery. The buttery that burst the container had bent some of the pigues were body. To call appearance at the cell was in mernal condition with the exemption of the fact that the liquid right have begin lon. One will be a suggest whether this necessarious way to call any spaces whether the fact that the liquid right have begin lon. One will be any spaces whether this necessarious way to call the concernment of the container of the call was not concerned. In a fact that the favor of an only concerned.

reply?

Yours very truly,

William Whener

WW IIL



200. Orange,

2nyhn20 NL 834pm

ex Chicage Ills Jan 24th 1916

Wm H Meadowcroft

Wa H Headowerett

Reisen Laboratory Orenge N.J.

Tell Mr Edison I will bring back with me all
data and prices on Jenny motor he asked General Electric
man for this I expect to see Mr Ford tomorrow

W G Des.

January 26, 1916.

Brother to Torogram

Mr. Edison:

I am now ready to take up the matter of the Walker truck representation, for solling to the Government.

at your convoicing, to that you drop Mr. Insull a note, good plan, we can do it under the mass of Mr. Moran, who is with me now, and let the whole terraction be in this memo, so as not to prejudice us by the truck makers against the Schison Batter. It was not make makers against the Schison Batter.

I want to so assessively after this work, and um taking it up with fard alone the same lines for the smaller trucks.

The specifications are being written at the present time, covering the electrical tracks for the Post Office Department, and I can to mit the iron while it is hot.

a would write the letter for your signature, except that Hr. Insul's connection of many years with you is of such mature as to conder it better, I think, for you to word it in your own language.

E. R. HUTCHISON.

GENERAL VEHICLE CO. ELECTRIC TRUCKS

OPERATING UNDER

THE EDISON BATTERY SERVICE SYSTEM

AND

THE MECHANICAL MAINTENANCE CONTRACT

WHERE TRUCKS ARE LESS THAN 10 YEARS OLD.

The following figures may safely be taken as the maximum cost of all operating items except drivers' pay.

The figures are based on twenty-five working days, per month. In many lines of business the trucks are worked for more days, per month, in which case the daily cost is lower.

The average mileage, per day, as given, in no way prevente the truck from greatly exceeding this mileage on certain days.

The figures include:

GARAGE space including ordinary greating and oiling; a fixed item.

BATTERY SERVICE which is on a mileage basis and subject to variation only as the charge for this service may be again reduced in the future.

TIRES as guaranteed by maker, which is about 20% more than actual "practice.

MECHANICAL MAINTENANCE CONTRACT which takes complete care of the mechanical and electrical upkeep of the truck, labor and material included.

This contract is for a fixed sum, per year, and 80% of saving which should be made is returned to owner and driver.

Where upkeep cost exceeds the amount of contract, the owner pays on half of the excess. Such an excess should never occur. If it does, a careful investigation is required.

Average per day.	750-1b.	1000-lb.	1-ton	2-ton	3] t on	5-ton
8 miles	\$1.33	\$1.59	\$1.98	\$2.50	\$3.17	\$3.61
12 "	1.46	1.75 2.07	2.17	2.76 3.29	4.27	4.93
30 # 40 #	2.05	2.42	3.00 3.39	3.89 4.45	5.08 5.69	5.92 6.72
40 "	9.50	3.03	3.73	4.96	6.80	7.42

THE HARTFORD ELECTRIC LIGHT CO. VEHICLE DEPARTMENT.

You Have Asked WHY

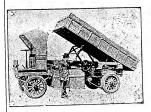
We Have Not Made a Point of the Increasing Price of Gasoline

The cost of gasoline to run a gas truck has recently increased by an amount varying from \$1 to \$3 per day, depending on size of truck, distance, set. To the merchant who has assumed the cost of running his gas truck to be gasoline and oil plus some tires in the distant future, this increase sense a very serious matter and in reality it is serious enough. But the cost of gasoline is not the only cost of running a truck or even the decisive factor.

Gasoline Given Away

Would Leave the Superior Economy of G. V. Electric Trucks Untouched

The real cost of operating commercial vehicles is rapidly becoming known to business men. The interesting price of gasoline merely emphasizes the advantage of the area longy. Such an internative of the control of the second of the control of the control of the control of the view away.



Hartford Electric Light Co.

THE HARTFORD ELECTRIC LIGHT COMPANY



Published by Munn & Co., Inc., 233 Br New York, Saturday, January 29, 1916

New York, Saturdoy, January 49, 1916

Chairé Alba John, Predicts, Peoplet C, Booch, Serviny, Omos D, Mons, Teasters, Peoplets, Peoplet C, Booch, Serviny, Omos D, Mons, Teasters, et at 233 Bondesy was considered at the 1945 New York, Y. as issued Class Matter of the Pool Land Class Matter of the Pool Land

quenal is to record accurately and Se, mechanical and industrial 'n Journal, It is in a postclopments before they

> nd to him timely the when such

> > 'ne dient

which our continental position and lumenso littoral

and our great foreign commerce outitle us to. The paper, which will be published in the Surgar MENT of January 20th and Polymary 5th, is recom membed to overy one who would be informed on this rproblem of vital national interest. Indeed, it is the duty of every American citizen to acquaint blusself with the situation before us and how it has come about.

The Peril of the Submarine

N the submarine, modern warfare has reached a cilmax of frightfulness. Not only is the submarine frightful in the destruction it metes out to the enemy, but in the herrible death it is ever ready to hard at its own crew if, for a mouseut, they should relex their vigilance. It has increased the distentiles of unvigation tenfold by the addition of a third dimen slou to its direction of travel. Stone blind, in pitch black darkness, it must be guided through the depths of the sea, liable at any moment to be crushed against an uncharted rack or to bury its nose in a bank of

and from which it cannot be worked free. But us If these perils were not enough, the submarine curvies within its tight little hold stores of pentup energy, ready to be discharged at the slightest provocation. Death larks in the warheads of the tornedors, any one of which is powerful enough to slatter a dreadmought and send it plauging to the lottom. Danger lies in the reservoirs of highly compressed air that are hallspensuble to the unvigation of the boat; in the liquid fact used to drive the engines when the vessel is on the surface; in the electric interior that turn the motors when the bent is submerged. These last may seem the sufest of the lot, but it is hopossible to store energy without danger. Hydrogen is generated when the batterles are charging and discharging. The charging is done when the boat is on the surface, and It is comparatively easy to get rid of the gases, but when the battery is giving out its energy to the motors and driving the vessel under the sen, all the inteles must be closed, and it is impracticable to discharge the guers out of the bont. A ventilating system must be used to entry them away from the latterles and dissipule them throughout the hold of the vessel. A still further dauger of the lattery is the possibility of letting sait water come into contact with the electrolyte, which would result in the generation of chlorine gas and the polyoning of the crew,

It was with the purpose of eliminating this last dan ger that experiments were nonde with the new type of ballery. The nickel-iron Edison cell uses an electrolyle consisting of canalle points, or lye. No dangerous reaction takes place when sait water comes into contact with this electrolyle. However, this danger is already practically non-existent even in lend batteries, because as they are now constructed there is absolutely no danger of lenkage, and not until the hold of the vessel is filled will water to a level of several luckes above the lop of the big initeries is there any passibilly of forcing sait water into them. When a submarine has reached as serious a combition as this the chances of the crew are decidedly hopeless, even though

they be not exposed to the danger of polecumus gases. While intending to eliminate one danger, however, the nickel-fron lattery has intendited aunthor danger. Fully lwice as much hydrogen is given off by the Edison battery as by the standard lead battery, which is practically universally used. Furthermore, as the carbande gas in the air has an injurious effect upon the caustic electrolyic, the hadividual cetts of the lattery are not properly ventilated. This results in the forms lion of an explosive mixture of hydrogen and oxygen gases which is always confined in the colls.

The explosion in the E-2 the other day was automisedly due to the large volumes of hydrogen given off by the Edbon battery while it was being subjected to tests. Such was the finding of the Board of Investigation. At present writing the Board of Impulry is still continuing its hearings and has not yet fixed the blance for the accident. However, it is readily apparent from the lindings of the Board of Investigation that the alckel-from lattery, while adding practically nothing to the safety of the salemarke, introduces an element of danger which does not exist in the lead-

61 -

The Watcher Recognition of Madden as more of the

type of lattery.

[ATTACHMENT/ENCLOSURE]

m Madowow Smu actimisticula talum airon utus. 'Du Sc. anderson max with Carolider IN Hutches

[ATTACHMENT/ENCLOSURE]

Mus attack willing was widney worked a lead attery I should der Board This weller steeled for it of my Juned of Jours. The Class world me not to talk to newspapers much The Duguery work, wir Think down more struck to go + though m neadoweart In com take any action for mich . If Dole Su it will [ATTACHMENT/ENCLOSURE]

Injudice the court

Pobruary 10, 1916.

Hr. Edison:

- I have been giving considerable thought to the matter of our relations with the General Electric Company and to the Westinghouse Company, and want to lay the following points before you as being actual facts and not personal adductions:
- Electric people, not long ago, "Edison is doing a good deal for the G. B. by using nothing ust G. E. apparent nothing but G. E. apparentus and boosting to the G. E. to the extent of recommendations, etc. from time for the G. D. to the catent of recommendations, etc. from time for Edison, and it seems to me that in this connection might be a good thing". The reply was "It is the policy of the G. E. Co. to decisions for an enemy as to winning over them for a friend elready won".
- General Electric Company, in the way of small motors, etc. as a matter of fact, we are paying about five percent more for these poods than we could purchase them for it manner that open to be a could be sent to be a compact of motors and the matter matter open to compact the to the could be a compact to the country of the matter matter open to the contract to the General Electric than the contract to the General
- Westinghouse Company did not do very much for the Misson Intorests. But not that Gorge Testinghouse is dead, and to the river such for the Misson Intorests. But not that Gorge Testinghouse is dead, and other interves have one in, the situation is entirely reversed. As a matter of fact, the Testinghouse Company Brown incl. And is Included the Testinghouse Company is now developing an industrial barrage truck, etc. for see about industrial plants. Orders dame direct from Pittsbugh to the How York and of the line to ome out here and take the matter up with bettery in these or the Company testing the matter is under way and development is proceeding in a satisfactory manner.
- Westinghouse men that the Westinghouse Company 111, intimo, go into the manufacture of commercial trucks. All their ongineers there are distinctly Edison from the standpoint of the Edison

Storage Battery. They are using Edison Batteries exclusively in their mining locometives, and are boosting the name and the battery for all it is worth.

the hands of the G. R. Company in times past, and are now received from the hands of the G. R. Company in times past, and are now receiving, and in view of the finet that the "setlinghouse Company and the treatment of us ig quite the antithesis of the G. R. Company do you think it fair for us to give all our business to the "eneral Electric Company? They come out here, make filial protestations, etc. to you, and then turn right su are ground, behind your back, and act quite southerny.

- 6. I guite inderstand your foeling toward the G. E. Company as having been the company which you started, etc., but concities even a son or adaptior can comport himself or herself in such manner as to entirely atlemate the affections of the parent. It appears to me the G. E. Company in such a class.
- 1. Take, for instance, the matter of the incendescent lump for motion picture machines. We nade for them two projecting machines. We made for them two places of film for testing the lump alonestic of the arc lump. Fo gave them tachindoil advice in the line of motion yloture work. They perfect un incundescent lump as the final result of the original request made by us for the incandescent lump for the lines almost necessary years ago. Them is from the lone kindoscope, years ago. Them is from the lone kindoscope, years ago. Then is from the lone that the properties of the lone of lone of the lone of the lone of the lone of lone of the lone of lone of lone of the lone of lone
- 8. The sooner we realize the fact that the G. E. Company is being operated from Wall Street, with all the cold blooded, non-sontimental actions and policy of Wall Street, the better of Cold will be.

MITChill The rating & Character-istically 5-18(7x4) any delimination of low anight voiling on 5-15/(n.) City they went neighborder toto now they in MANK CAm tomberon 11/16



DETROIT TAXICAB & TRANSFER (O.

TELEPHONE TAXIGABS MAIN 5020

GEN'L OFFICE 42-44-46 RANDOLPH ST.

DETROIT Feb. 25th., 1 9 1 6.

Mr. Thomas AjEdison, Orange, New Jarsey

Dear Mr. Edison:-

Replying to your communication of the 25rd, we desire to eav that our experience with your battery in service with this company has been such that it completely substantiates the previous experience and recommendation of our engineer.

The unfortunate experience the United States Gevernment had in the U.S. S. ~2, does not necessarily decide the merits of your battery. This estatement is borne out by the fact that other trouble has occurred recently resulting in the loss of life, an example of which being the loss of life, an example of which being the loss of life, in the death of the entire crew. The writer has in mind the under-eea boat that was such in the Pacific Ocean.

To commenced using your battery here in an experimental car sense way seers ago. To have since those acces way seers ago. To have since the madded to our equipment from time in a second to the second seems that the second seems that seems tha

Regarding the eafety of the operation of the two different types of battery, was believe that no doubt exists in any mind competent to judge this matter that the menace of operation is greater with the lead than with your alkaline type of battery. Further we believe this eatement to be borne out by



DETROIT TAXICAB & TRANSFER (O.

TELEPHONE TAXIGABS MAIN 5020 BAGGAGE MAIN 5353

GEN'L OFFICE 42-44-46 RANDOLPH ST.

DETROIT Feb. 25th.,

Mr. Thomas A. Rdison.

Page-2.

the fact that wherever intelligent thought has been brought to beer on the use of storage batteries, it has resulted in the use of the Raison Battery.

That the lead battary interests are leaving no stone unturned to discredit the "disen Storage Mattery seems very logical to me. It is only necessary to review the interest of the lead bettery for the lead tiftees years to realize that up to the to install their battery on gaseline cars for intermittent and tamporary service, they had made practically an absolute failure of any and all commercial arplications. Peasure they can see all minister from the product, induces any liminatory from the product, induces them to put up a fight by foir means, or foul to exist. I have no hestiancy in saying that if this matter is sifed to the bottom by an umbiased body of men, competent to due, that you that you will come out that Tlying colors.

Proof of all our contentions and statements is the fact that we are making a success of our slectric car businers, and attribute the greatest share of this favorable showing to the performance of your battery.

If you care to use any of the above statements for repetition, or otherwise, you are at liberty to do so.

Sincerely yours,

ETPCIT TARTOAR & TRANSFER COMPANY

Secretary & General Manager.

trempler percentages EDISON STORAGE BATTERY G. E. GASOLENY SETS Completa Staumship Plants Installed

Special attention given to Yacht and Power Boat Equipment. Search Light, Storage Bat-Private and Municipal Light-ing Plants.

All kinds of Alternating or Direct Current Apparatus Direct connected Steam or Gasolene Generator Units. Electrical Driven Machinery for all purposes.

Mr. Thomas A. Edison, Edison Laboratory, Orange, N. J.

Smith-Meeker Engineering Co.

MARINE ELECTRICAL ENGINEERS AND CONTRACTORS

123 LIBERTY STREET

TELEPHONE 1531 CORTLANDT

February 28, 1916.

Dear Sir:-

We trust you will pardon our delay in answering your communication of the 23rd inst. regarding your Storage Batteries, as the facts which we are going to bring to your attention happened some years ago, and we wished to take a little time to refreeh our memory regarding details, before writing you.

First, we might eay that we have purchased, installed and operated various types of Lead Battery for the past fifteen years, although our experience has been very slight with this type of Battery since we started to handle your Battery in July 1910.

Storage Batteries as applied to private yaoth requiremente, there has been very little over taken in their installation as regards vermilation or representations of the results of the re engineering.

These conditions now however, are changing for the better, due principally to the various accidents which have happened in the last few years, caused by the explosion of Storage Battery gases.

one of the principal talking points which we have used with success in the selling of your battery, as eagainst the leaf type for private yacht work, was that there was no support only and therefore no chance of damage to deck in filling the Battery to the hull in case the Battery leaked and to the surrounding metal work from the gases.

The writer has personally seen large red spats on the dook of private yealts, pipe covered with corresion from storage bettery games and fenders and ropes completely ruined from being in the same compariment with a Lead Storage Battery.

We might mention one instance of the Schooner Yacht "Atlantic".

which had a set of Gould Batteries originally installed in a compartment underneath the owner's state room. Due to their being a very slight lesk in one of the hard rubber jers, a ground was formed, and before long the cell was empty, the soid being held a pocket next to the hull and before this was discovered, it had almost eath through the plating of the vessel. This socident together with the ruining of the expets in the room above, from the gases, made it necessary to move the Battery to another part of the

The writer perconally had a rather unpleasant experience with this same Battery, when he happened to be on board of the Yaoht looking at the damage done by this socident, when the Assistant Engineer acoidently touched the terminal post with a portable light, making a short circuit, which caused three of the cells to blow, with the result that besides the damage to the cells, the writers as well as the Engineers clothes were writed.

Of course, it is needless to say that with your Battery none of danger from gases between your battery and he various lead types, we will stee the following instances, which will give you a fair last of the experiences which we have had in connection with this point;

Some few years ago, Mr. Wm. K. Vanderbilt, had on board his Steam Yacht "Graratule" between thirty and fourty celle of type Fr. Chloride Accoundator. They were located beneath the galley floor in a compartment that was not properly ventilated, although the floor was not tipht over the Battery. The Assistant Engineer raised a trap door to go down into this compartment, when there was a terrific explosion which eart him to the Hoepital for a number of weeks and wrooked that part of the boat.

installed in the Power Bost Dolph. These Batteries were in a tight box lossted undernesth the dining room floor and without warning of any kind and with no one near it, this box exploded driving the dining room they through the dock. Portunettely no one was hart.

owned by Mr. Albert Smith of the Vitagruph Co., had ne explosion which we were sent to the one on the S. T. Oristina, had no explosion which were very similar to the one on the S. T. Oristina, had no over the sent of the phened at New London three years as the property difference being that the damage on the control of the sent of the sent

The writer personally saw the Colonia as well as the Cristina explosion, and would state that the force of the explosion was apparently the same in each case, although the Leed Battery was of considerably less than one-half the size of the Edison Battery. There was no ventilation on either one of these boats.

work, with one or two exceptions. On the steam Yaoht such a which a work with one or two exceptions. On the steam Yaohts "altring" and "mirvane", formerly owned by Senstor Aldrich, the Storage Batteries were located in the shaft alley directly underneath the 'owner's quarters. In both oases they had a flood of salt water from the owner's bath-room which leaked down through

the floor into the open less cells. As soon as the Chief Engineer noticed that there was trouble with the lights, he entered the battery comparison and was almost over-come with Chierine gas before he could get out. This of course, is a condition that would very rarely happen on board of s private waint, and could not, if their plumbing system had been in proper shape.

It is our personal opinion taken from our experience and a set of the state of the set o

We trust the information which we have given you will be of service to you and we will be glad to help you in any way we can at any time in this connection, as we have tried out your Battery from every engle in connection with our particular line of business and it meets our requirements in a most satisfactory way.

Yours very truly,

The SMITH-MERKER ENG/ CO.

CABLE ADDRESS
SINGULE CAMEAGO

POISON BUILDING
72 WEST ADAMS STREET, CHICAGO, ILLINOIS
February 28, 1916.

Thomas A. Edison, Esq., Care Edison's Laboratory,

Orange, N. J.

My dear Mr. Edison:

I have your letter of the 23rd, with

relation to the data you want as to the safety of storage batteries. I will have the information gathered and sent you at an early date.

Yours truly,

lancer icacci

CHARLEP F. STEINHETZ, A.H. PH.D. WENDO ... AVENUE SCHENEGTADY, H.Y

Let a beauty 23, Mr. Thomas A. Edison,

My dear Edison:

Orange, H. J.

I have followed with considerable interest the incidents connected with the introduction of your nickel steel etorage battery for submarine propulsion, and noticed with the greatest regret, in connection with the accident at the Brooklyn Navy Board, the extent to which incompetency and commercial interests still influence such serious matters as the preparation for our national defense.

Without going into engineering detaile: there are a few matters regarding storage batteries, which are obvious to any engineer:

In any storage battery, the ammere hours input during charge must be materially higher than the ampere hours output during the discharge, and the difference appears as hydrogen and oxygen. Every storage battery thus is a potential danger of explosion, if the gases are not properly taken care of.

-24

CHARLES C, STEINMETZ, A.M. PH.O. WENDELL AVENUE SCHENEGTADY, N.Y

The essential characteristic of the nickel steel battery, verified by general experience - including my own many years experience with lead batteries and nickel steel batteries in my laboratory - is that the nickel steel call to remain in good condition, does not require the regular care and attention, which the lead battery requires.

In my opinion, if there is any place where the ability to stand neglect and abuse is of vital importance, it is in the submarine under service conditions.

The conclusion from this, in my opinion, is obvious.

There are other features, which are of importance, even if secondary in my opinion to that all important one of the battery being there and in operative condition when needed after the indifferent care or even abuse unavoidable in service; such as the greater mechanical strength of nickel and iron, compared with lead; the danger of corrosion from sulphuric acid, while alkali solutions do not attack iron, but protect it; and the danger of chlorine gas in case of accidental entrance of sea-water to the lead peroxide and acid of the lead battery.

In my experience, the lead battery is very satisfactory as reserve or stend-by bettery in an electric station, and for similar service, where it can be given regular and careful attention by expert engineers, and is never abused, and where low cost of the investment is of first importance; but where such continuous care is not feesible, and reliability is essential, the lead battery can not be satisfactory.

I hope you have got over the unusual dissipation of staying at our Illuminating Engineering Society dinner until midnight, and had a comfortable ride home.

With best regards.

Yours,

CPS-SW

Charles P. Steinmestz,

Illinois Central Railroad Company. Office of Vice President:

Mr. Thomas A. Edison,

Orange, N. J.

Dear Sir:-

I have your letter of February 23d. So far as I know, there has been nothing said about our use of the Edison batteries. We have found the batteries satisfactory and have experienced no trouble whatever with them.

I think, from our experience, it would take a good deal to shake the confidence of our electrical people in the Edison Storage Battery.

Yours very truly,

7 m Edison:

Mr

From perusal of letters, records of troubles of complaints, studying of converte of is apparent that

1st Malt cells are of for normal these tran normal disolarge rates when not too cold.

2 MalH CElls are not adapted to heavy discharge work

32 If we coul Junior Koll at T got away with an uccount (Inc.) In the fotasts, we should sudcaver to form in potast and run in 1/2 KoH + 1/2 ha OH

415 J caur du that, form in 1/2 KOH+/klly,
and run in NaOH

5" I caur du that, form in 1/2 KOH+/klly,
and run in NaOH.

The character of the humans has a great deal to do with it. In Some conditions a 5-tm truck with NaOH critis is OK. - where the roads are good & level.

But in other conditions of heavy grades, heavy reads to.

Math is bruiging discirally or the battery wow on smaller trucks.

The lead prople are capitalizing this against us. In Washington, where I had real outside trade tack when visiting my office then, the lead prople are scattering the news trade and thanky so good as KOH, + it is hearing us.

For heavy work I commotly alvone evan raising the price of the batting to take care of the increased CDF or potant, rather than try to get by any longer on straight not on such work.

I have my prejudice in the matter as I witned note the investigation work unbrased mind, Running nothing about Na 6 H Ekdentyte.

Ser attacked extracts, conduced, from appended letters to.

also see attacked curves condensed as much as I could have them made In from

Summary

. Comercian Sugar As fining Co. brught & clock trucks + & Pathenia (2. 4 a 6 CHIS) after demonstration of Continuate Transport Co. WITH KEAH CHIS.

We delivered the batteries for these trucks with Soda electrolyte.

The trucks woult give I hours I server with 3 batteries, and will not negotiate grades previously made with demonstration frack.

The Trucks will not negotiate grades

Ebling Brewery N. J. Track gave delivered to them has Soda. Is Julling down as wow make grades and runs very slowly.

Ausucan Meter Co. N. y
Performed 60- 95 N.O.H. csps with
60- A-10 Cells, with Soda. Johnsk wout
make bur 5 miles and agos stuck. Meter
Co. want the A-8 cells brack. Service
Situation.

Commonwealth Edison Co. Chierzo Illo.

These people have a number of Edsom Butting equipped Trucks.

Presently Jelled with Soda about 10 battures.

Trucks Slowed up and Showed mentioned capacity.

Rommonwratth W. Rickey so voheminty Company, substituted potash. Inches SK now.

Commun.

Drursh loss of capacity due to oping of curo-Low electroyle truep, due to opin buttery mountains

computurists.

Jley have 10 6.8 trucks equipped with 60-a culs. For smell. Should be A. o for a 2 ton trucks. The sorter, being less voltage of all of about resons, would set operate.

Metropolitan Opera Nouse, n.y. Have had 65 - a & cells in service of years. Replaced by 60- at CElls with Soda. 1st day car get stuck after making only 4 milso, all level good. Falled on welne to manhattan Britze. Seur to Serne Station 4 stailed at same place after richarge. Then discharged to grow + charged 12 lins, how truck would not lake the grade. Removed Soda & Substituted Potach. Operation now suturty Satisfactory Socia Electrolyla Hom & Wardaut Wy. to produce the Bought Commenced Touch to truck Gor stuck repeately 60-at crus, Soda. Had took made of voltage or + E. Company substituted Potach. Jouch OK. now, Because Lada wrang

Cramp. Shipbuilding to

Bought one - 4 ton Communical buck nuth 60 - 410 culs, Sola. One 5 ton nuth 60 412 culs, Sola.

Musatesfactory performence after long and repeated that.

Crawlo finally notified Communical Co to Substitute dead.

Sumpor succeeded in staging action mitted Soda could be removed to polach substituted.

Inchos satisfactory now. Service is Severe, beary grades re.

Doda wrong

Mildism: normal Rate Discharges. (1)- Yellow curve, cells formed in NaOH
aug Run in naOH (2) Purple curve, cells Formed in hroll+ handt aud Run in 1/2 KOH + 1/2 Madt. (3)- REd Curve, cells Formed in Kolt, and Run in na OH. (4) - Black Curres, cills formed in KOH and Run in 1/2 KOH + 1/2 NaOH (5) Grum curr, cells formed in KOH and Run m KOH. Deductions. Bust 2 nexx hor 3 " " " 5 poorsor.

Mr Edison

Black curves are 21% K.O.H CIIIs.

Discharge at Gates varying tetwarn 1/2 normal + 3+171150 71mm

Seductions from these curres

(a) - Potash cells average letter
than Malt cells

(b) Potash cells have higher awage lettage That Malt cells on discharges seeding normal.

(c) Potash + MaoH or//s have about the same armoge to Hoge ar mound + 5ub-normal rates of discharge.

CHICAGO GREAT WESTERN RAILROAD COMPANY

Mr. Thomas A. Edison,

Orange, New Jersey.

CHICAGO. March 1, 1916.

Dear Sir:-

On my return from the south I find your letter of February 23d:

Your batteries have been in service on this line since March, 1912, commencing with a test of twenty-five cells. The number has since been increased at various times until at present we have eleven hundred cells in daily use. The battery has given perfect service; we have had no cells demaged by explosion of gases during charges; our battory compartments are not specially arranged to accommodate your cells, being the same as we formerly used for the lead batteries. As far as our experience goes, there is absolutely no menace to life or health in the care of your batteries, in fact, they are better to work with then the leadsulphuric combination. I cannot possibly think of anything that could be criticised in connection with your batteries. They have reduced our maintenance from ninety dollars per annum for lead batteries to eight dollars per annum for your type, and this cost is figured after four years of use.

You may use this letter in any way you please. I

am very glad indeed to be able to write it.

3. M. Hellon-Presh Yours very truly



APEANHO (OAST INTERNALIOAD (OMBANY)

R. E. SMITH, CONTROL SUPERINTENDENT OF MOTIOS POPER OFFICE OF GENERAL SUPERINTENDENT OF MOTIVE POWER

WILMINGTON, N. C. Manch 2nd, 1916.

Mr. Thomas A. Edison,

Orange, New Jereey,

Shower Bat

Dear Sir:

-: Confidential :-

I am in receipt of your confidential letter of the 25rd ultime, and take pleasure in complying with your request to give our experience with Eddeon etorage batteries:

We have had no experience with storage batteries, except in our lighting service, in which we have both Edison and lead batteries.

At the present time we have in service 1025 cells of Edison our lighting batteries, with an average age of tworty-dight months; and as maximum age of forty-eight months; and 44 colle of lead batteries. (The average set all as the maximum age of the latter cell, are the first an accurate idea of their average age, for the reason that there have been many renewale and replacements, of which close records have not been kept.) The Edison batteries have, up to the present time, given much better service, longer life, with lower coet of maintenance than the lead batteries.

have had a few pleasans of Edison betteries, but had no expleasions of Ead batteries, but none Serious. There was an explosion of a lead battery under a Pullum our, which set fire the battery box, and would probably have burned the our had not the Stire been discovered promptly and extinguished.

You will note that I have confined my statement to the age and comparative safety of the two types of batteries, which I presume are the only points you desire us to cover.

It is entirely agreeable to me to show thie letter, confidentially, to the Secretary of the Navy.

Youre very truly.

A Junik

The Bultimore & Ohio Railroad Company,

BALTIMORE, MD.

A.W.THOMPSON, THIRD VICE PRESIDENT.

My dear Hr Edicon:

Autoba (2,1010)

on line the 25th three which line 1 may be at a third who cheek or blockright line in the line 1 may be at a third with our blockright line in the line 1 may be at a third with our blockright conflower line line we concurred with lead between the line we have a concurred with lead between the line was the line when the line which line is the line when the line was the line when line is a boried of three years.

of lead betterion as it is alteen texterior. In hear land of betterior, as it is alteen texterior. In hear land of betterior, as hear land of betterior, as the land of betterior is the land of betterior is the land of the

Minon hattories there can no constan when the explosions of sould be considered Camprous, the greatest dramp thing point by building out of the sides and top of the can. In but the building out of the sides and top of the can. In but the instances has the datases been sufficiently great to mocceal test thing the atteriors out of sorvice. It is the opinion of our Electrical primer; our car Highting operating an endificiently less danger from the building which were to health this betteries that there is complicated, but the state of the state of

I have no objection to your giving this information to when you please, but would not, of course, care to have it quoted in the form of an advertisement.

With assurences of my respect and esteem, and with kind personal regards, I as,

Yours your truly.

Mr. Thos. A. Edison. Orango. New Jorsey.

Porsonal

AW, Thyupson,

m Edison: monnox carted mer last week Status he is in receipt of an order from the admirally for 266 Type 5-13 cices for a boar this design of think In which I have primaly received. Forted fox and also cartled Mu alminety through capt Grand (the hard attache) that we could not gar 266 Deppe 5-13 Nur could gar 272 dype 5-12 cells mito that boat. I have received a telephone. Jome capt Games today varying from the admirately " Regarding Edison Battery two hundred and swenty Two Type S-12 will be salisfactory.

Dhave therefore cable for hast night by defined activity (24 hour) rate as fellows: "Admiratly cables through Ottache 2:12-5-12 Satisfactory. Cities preparing seed Engent. Dell Monnot send formal admirably order delivery fas New Joseph payment lever. Thave started work will rush.

This order amounts to practically \$90,000.00 and I proper the admirable

This order animals to practically \$90,000.00 and I profes the admirated order rather than Monnot's order of a bill of goods of this size. So I awar the formal order, we are doubtless properly soft in gray ahead with the work as capt hand with the work as capt hand order the cable.

to him is morphy to the ray complete cable at sour the admin alter army request. It mult take several rumites to multitude the source ambited the order and the source

complete the order and the some we got it who the boar the some in. So please instead Bachman be for alled to save time. I will got all the formal papers as soon as I return from Washington Monday.

The ordining of the battery signifies to Saville that I return to Saville that I return to manufacture of frum battains in Torgland as they stated from they would not order a battery mules they could make guten one of

The Submarmos, in England.

Lam grow to Washington ar 102 token to still be their with Sunday afternoon. Will report to for more day morning. an attending a recipion ar the White House tought, by unitain of the President.

- Waitch:

CABLE ADDRESS
CABLE ADDRESS

CONFIDENTIAL.

Thomas A. Edison, Esq., J Care Edison's Laboratory, Orange, N. J.

My dear Mr. Edison:

I have your circular letter, addressed to me as President of the Walker Vehicle Company, with relation to the question of safety of your storage battery, and enclose you herewith letter from Mr. Wm. A. Fox, Vice President of the Commonwealth Edison Company. Attached thereto is a letter from Mr. E. O. Schweitzer, Chief Testing Engineor of Commonwealth Edison Company; also a second letter from Mr. Schweitzer to which is attached a communication from Mr. Ernest Lunn, Chief Electrician of the Pullman Company; also a letter from Mr. George R. Walker, General Superintendent of the Walker Vehicle Company, all of which I hope will be of use to you in connection with the inquiry you made of Me.

Yours truly,

Lanuel Ensuel

Form 6-9

COMMONWEALTH EDISON COMPANY DEPARTMENT CORRESPONDENCE

DATE March 2, 1916.

то

SUBJECT

Mr. Samuel Insull, President.

Dear Sir:

In accordance with your request I have made inquiries of our Engineering Department for opinion on the comparative safety in operation of the Edison battery as against the lead types.

In addition I have obtained an expression of opinion from Mr. Lunn, Chief Electrician of the Pullman Company, on account of his great experience and position of authority in the storage battery field.

Besides letters from our Mr. Schweitzer and Mr. Lunn I attach also one from Mr. Walker of the Walker Vehicle Company, whose opinion should have weight on account of his familiarity with the operation of both types of batteries in many scattered installations.

They all seem to point to a conclusion that there is apparently little difference in liability to explosion, while at least for motor truck propulsion the Edison battery is the more desirable type.

Hom a Dex Vice President.

PW.

Enc.

COMMONWEALTH EDISON COMPANY
DEPARTMENT CORRESPONDENCE

DATE March 2, 1916.

TO

SUBJECT

Mr. Wm.A. Fox, Vice President.

Dear Sir:-

Herevith please find letters from Mr. Ernest Lunn, Chief Electrician of the Pullman Company, and from the writer regarding the subject of Edison Storage Batteries, in accordance with the conversation with Mr. G.A. Pressen.

I trust that these letters meet your requirements.

Yours very truly,

EOS:D--Encl.

€ Od fund

1

THE PULLMAN COMPANY

OFFICE OF THE CHIEF ELECTRICIAN

EHNEST LUNN,

CHICAGO. Maron 1st, 1916.

Mr.S. O. Schweitzer, Commonwealth Walson Company, Harket & Waddington Streets, Chilenge.

the dange of a debreak trage;

Confirming our conversation of this morning relative to my experience with Adioon batteries while with the Commonwealth Adioon batteries while with the Commonwealth Adioon Common, and particularly during the meveral years that I was President of the Walker Weddele Common of Chicago, manufacturers of commonwial leads to the Walker Weddele Commonwealth and the results were uniformly good. Weddele batteries of all sizes were used and to my knowledge there was never any question as to the batteries delivering their full-rated capacity. To explosions due to ignition of easier of our the batteries were ever reported. It was the practice to properly ventilate the pattery commonwealth and otherwise take productions to prevent such explosions. The same precautions were taken in case lend batteries were used.

Yours very truly -

Emish Burn

CHICAGO

FORM 6 9

COMMONWEALTH EDISON COMPANY.

4827

DEPARTMENT CORRESPONDENCE

TO

SUBJECT: EDISON STORAGE BATTERIES.

Mr. Wm.A. Fox, Vice President.

Dear Sir:-

Edison Storage Batteries in common with other types of storage batteries give off hydrogen gas while charging. When the charging operation is nearly completed the cells gas freely. Hydrogen gas is highly inflamable and it is therefore necessary that the battery compartments be well ventilated in order to avoid explosions from the ignition of the escaping gases. The amount of hydrogen gas given off by Edison Storage Batteries is greater than with the lead batteries but there is no difficulty in eliminating practically all danger from this source by proper ventilation.

The Commonwealth Edison Company has been using Edison
Batteries for the past seven years on its electric vehicles, and at
present has one hundred and twenty vehicles equipped with these
batteries. We are told by Mr. C.F. Clark, Superintendent of Francepertation, that during all of this time there have been only two
cases of trouble due to explosion of escaping sas. Both of these
cases of trouble due to explosion of escaping sas. Both of these
cases cocurred while the batteries were being charged and were clearly due to the fact that the battery compariments had not been opened
for free ventilation. The damage done in either of the above cases
was not material. Mr. Clark also estated that he does not consider
this matter of any real importance as it is not at all difficult to

....

COMMONWEALTH EDISON COMPANY. DEPARTMENT CORRESPONDENCE

CHICAGO

то

Mr. Wm.A. Fox.

have proper ventilation while charging. He also seems to be well satisfied with Edison Batteries in general, and considers them much more desirable than lead batteries for vehicle service.

fours very truly.

Onief Testing Engineer

NJC:D

Walker Dehiele Company

WALKER COMMERCIAL ELECTRIC . EHICLES CHICAGO ELECTRIC PASSENGER VEHICLES GENERAL OFFICES AND FACTORY \$31-545 WEST 39" STREET CHICAGO

CHICAGO ELECTRIC SALES

March 2, 1916.

Mr. William A. Fox, Vice President, Commonwealth Edison Company, 72 West Adams Street, Chicago, Illinois.

Dear Sir:

to comparative safety of Mison Storage Battery and "lead" betteries, will say that both types give off gas while charring and both require ventilation (simply the opening of the doors or hoods of bettery comparation requirement charge. The property of the property of the control of the cont

maintenance and manufacture of electric vehicles control with storage batteries and over at years fall we with storage batteries and over at years fall we often the operation of the control of the cont

Yours very truly,

Dio. R. Walker General Superintendent.

achaeces

N₩W

NORFOLK & WESTERN RAILWAY COMPANY

ROANOKE, Va., March 3, 1916. B

Mr. Thomas A. Edieon,

Orange, N. J.

Dear Sir:

Referring to your confidential letter of February 23 in reference to the use of your type of battery on the Norfolk & Western road:

Beg to advice that the operation of your batteries on our road for the past three years has been entirely euccessful from every viewpoint. We have handled these batteries on and off the care in eimliar corvice where we originally used the lead batteries. We have also had them under terminal charge where cars have arrived with batteries exhausted, and we have never had the elightest difficulty in handling them, either from an electrical or mechanical standpoint, and the entire installation has been satisfactory.

Particularly in reference to the matter of safety, we have absolutely no complaint to make, and the question of handling these batteries by our usual oar lighting electricians has never caused us any trouble whatever. We have never had a case of gas accumulation which has caused us the slightest trouble with the cars in operation on the road or standing at terminals on charge.

Youre truly,

John a Cilcher Mechanical Engineer.



THE HARTFORD ELECTRIC LIGHT CO.

266 PEARL STREET HARTFORD, CONN.

Mr. Thomas A. Edison,

Edison Laboratory,

Orange, N. J.

Marchards Haropeter 1916.

Dear Sir:

In reply to your favor of February 23, 1916.

The Hartford Electric Light Company's experience with storage batteries dates back to 1896, and includes the batteries of lead types for Central Station work as well as those for vehicle work. This Company has used Edison Batteries in vehicle work for the past five or six years to some extent and to a very large extent in the past three years.

The writer has been in personal charge of the Company's batteries since 1899. The question of ventilation, while an important one, has never proved a serious one in our work. We have found it no more trouble to care for Edison batteries in this respect than for less batteries.

We trust that this is the desired information.

Yours very respectfully,

THE HARTFORD RESCRIC, LIGHT C

wir: FS:



Dr. Thomas A. Edlson, Orango, H. J.

ly dear Dr. Milson:

It is with the greatest of pleasure that I rescived your letter and I consider your request for a statement from me the highest compliment I have mot while in this work, and at the same time, I consider it a priviloge to have the opportunity of stating to you that I, for one, appreciate what a wonderful contribution the Edison battory is to any nation, symbleate, corporation or individual that may have an application for a storage battery.

Imagement as I intend to add the weight of this Company's statement over my signature, I will reply specifically on the second page.

I was a visitor at your storage battery plant and works in the latter part of October and the first part of November, at which time you were in the West. I regretted at that time your absence and 'w consequent inability to most you again personally, but I was heartily and generously welcomed by Mossrs. Thompson, Ross, Jr., Smith and others, and my visit proved very entertaining as well as my receiving an educational advantage.

In the event that the enclosed letter is not information such as you would consider offective, kindly command my attention the second



THE DENVER GAS AND ELECTRIC LIGHT CO.

GAS AND ELECTRIC BUILDING
IS T AND CHAMPA STREETS
DENVER, COLO.



PHONE MAIN 4000

Eighth 19 16

Br. Thomas A. Edison,

Orange, U. J.

ly dear lir. Edison:

I have read with considerable concorn and regret the various articles appearing in newspapers and periodicals regarding the accident that recently befoll the U.S. · E-2.

years' experience, I cannot help but feet it which Daginer of fitteen years' experience, I cannot help but feet in the all of these malicious statements and attains have easily the contract a first of a fitteen and attains and attains are all the significant in the storage between the contract of the significant in the storage between the fitteen and the storage between the stora

At the present time, The Denver Can & Heckric Light Compuny, which Compuny is a new up relyclope to serve, have in their service interior Mainer and Courteen lead batteries. About four years ago, we had, I believe, tem leiden and about twenty-two lead batteries of various makes, and the present condition indicates the results of actual practice and the expenditure of over 120,000.00 by this Compuny Light and Fourier and the condition of the Compuny Light and the condition of the Compuny Light and the condition of the Compuny Light and the Compuny Light and the Compuniture of the Compuny Light and the Compuniture of the Compuniture o

We have never had in Denver an explosion of any kind on the part of an Edison battery, but we did have an explosion with a lead battery which fractured forty jury in a forty-two cell battery.

It is necessary that our vehicles spenche with creat regularity and absolute reliability. The slogms of this large Company and our greet syndicate, Neury L. Deberty & Company, has alongs been CHRUCH, and with that can in view, ye have found that the Major bettery, the to the virtues, among which are continuity of service, reliability, and Géolomy of operation, has enabled us to serve our patrons upon our regular premised techdale.

THE DENVER GAS & ELECTRIC LIGHT CO.

-2-

I have noticed statements made in print by producers of load batteries of the they's and wherefore's of the recent explosion, and in the case of the Derve, and the recent them some nothing care than the get into print, and his arguments and organizations were so ridicules and inconsistent with the true facts that I did not consider it worth while refuting them in our local press.

his subordinates, to whom is placed the treat of this saturation. Will see of the consider the rearrange of the consider the reaching virtue of your instear, and if such is the case, not let one mesont's failure be remembered longer than ten years of ground success.

Prom my ricepoint, if it mero monoscary for my commany to return to the use of lead batteries, and should the Milson be not excitable, we could forgo the use of battery propolled vehicles and turn to the factor or psec

Wishing you the unbounded success that you and your productions deserve, I am, with kindest personal regards,

Yours very truly

Electric Vehicle & Storag Battery Ingineer

THE DELIVER GAS & ELECTRIC LIGHT COMPANY.

Medison kutch = 22 am

(thin or one assures of order

Twill reg up to make all the

Dam getter? They much all the

Wormed about the Pot ash

Situation is 1' gasts Submanic

Calley,

Our inquires are consig in

Much + Jast in Submanic

Exceptions. I share from

Justed an estimate in one

Joathy of 2022 Kilowatt

hours + auritin y 506 Kinites

plan both as if they will

gy therugh.

920 K.W. Hr. battery for England.

Then then is an infining in (an forige) on a battery of above food K. W. Hors from a sea good boar of large sign (Submanner).

There will take an augult for it potash and when are we grow to first it?

His Submarne broncess is two born the land of a lot of formers.

Caur in make the patach some vory;

BATTERY STORAGE

March 13, 1916.

Mr. Edison!

Do you want Vickers to have a copy of the Honnot

contract?

M. R. HUTCHISON

Color of the form of the form

Edison Batteries.

File with bunch of letters

SEABOARD AIR LINE RAILWAY COMPANY

Portsmouth, Va., March 21, 1916.

Juden Hersel

CONFIDENTIAL

MR. THOS. A. EDISON,

Orange, N.J.

Dear Sir:

Your confidential letter of February 2 hr. As far as we are able to determine from the records, there has been but one explosion of a car lighting battery on Semboard care. This was of a Willard lead battery, and was caused by an internal short circuit producing a peark and igniting the gases, and resulted in blowing off the cover of one cell. We have experienced no trouble whatever with Edison batteries from this cause.

Our Electrical Engineer advises he has been given to understand that the records of the Pennsylvania Railroad and of the Baltimore & Ohio, show that on those roads there has beenjadouble the number of explonions of lead batteries as Compared with Edison, and that in each case the lead battery explosion has resulted in considerable damage, whereas with the Edison bettery the only damage that been to distort the sheel contains; and that in every case It has been to distort the sheel contains; and that in every case It has been possible to press the Edison battery back

It is our opinion that the Edison battery is the safer to operate.

Yours very truly,

Supt. Motive Power.

TELEPHONE DOS ORANGE

LEGAL DEPARTMENT

THOMAS A: EDISON, INC.
BATLES HANUFACTURING CO.
EDISON STORAGE BATTERY CO.
EOISON PORTLAND CEMENT CO.
EOISON PHONOGRAPH WORKS

DELOS HOLDEN

SEHERAL COURSEL

FRED'N BACHMANN

HENRY LANAHAN

WILLIAM A. HARBY

SOUNDEL

ORANGE, N.J. March 28, 1916

Mr. Thomas A. Edison.

Fort Myere, Florida.

Dear Mr. Edieon:-

After several conference with Mr. Saville, we have prepared a draft of a proposed agreement between yourcelf, Vickers Limited, and Edison Storage Battery Company, and I enclose herewith for your consideration three copies of the same. The going into effect of that portion of the contract which relates to the manufacture of Edison cells for general purposes in the Eritish Ediso is, of course, contincent upon a satisfactory arrangement being made with Edison accommulators Limited, inasmuch as that company is now the owner of the exclusive sales rights, with certain minor exceptions, for the battery in the British Isles. Purthermore, you will note that if that portion of the agreement which relates to the manufacture and calls of the battery by the Vickers Company for all purposes chall become effective, the Edison Storage Battery Company will be excluded thereafter from the battery business in the British Isles.

It is believed that some provision for a minimum royalty should be inserted in the agreement, and this has been made tentatively \$10,000 a year for twenty years after the manufacture of the battery for general purposes is begun by the Vickers Company. Under the agreement as drawn, after the expiration of said twenty years

the Vickers Company would pay no further royalty. We believe that the agreement should provide for royalty payments extending over a definite term of years rather than to attempt to make it a perpetual arrangement, as we do not think that the rights grunted and the covenants made by you and the Battery Company would be a sufficient consideration to support a promise to pay royalties for a period of time without end. During the said twenty years, all of the royalties are payable to you and the Edison Storage Battery Company gets nothing out of it.

It would seem that this agreement is of such a nature that it should be either authorized or approved and ratified by the Board of Directors of Edison Storage Battery Company.

Inasmuch as we have not had an opportunity to consult you as to the details of this arrangement, it may be that you will want certain changes made. Mr. Saville is auxious to have the matter closed up as early as possible, and it is suggested that if the contract is ontirely satisfactory to you, two copies may be simed by you now and we will send them to Mr. Wagner in London with instructions that he deliver one of them to the Vickers Company upon receipt of two copies duly executed by them. While Mr. Wagner will deliver only one signed copy to the Vickers Company, it is proposed to send him two signed copies by different steamers to provide against possible misserriage in the mails.

Do you wish a copy of this contract submitted to any one in the Sales Department of Edison Storage Battery Company? Mr. Thompson has asked me to let him see a copy of the contract before the deal goes through.

Your British storage battery patents, with their expiration dates, upon which annual taxes have been paid up to date, are as follows:-

> No. 322 of 1903 - expires January 6, 1917 No. 28948 of 1904 - expires Doombor 10, 1918 No. 1924 of 1906 - expires January 25, 1920 No. 1928 of 1906 - expires January 25, 1920 No. 401 of 1908 - expires January 7, 1922

> > Yours very truly,

HL-JS

Encs.

Henry Canada

THREE FIRE CIPY

Llewsllyn Park, Sunday, Wareh 28, 1916.

Dear Mr. Edison.

I am enclosing an article which appeared in the world today. Every word of it is Gospel truth.

Last night the Chemical Torks of the Lister Agricultural Chemical Torks, on the Headons, went up in smoke. The blaze attracted my attention, as from my house I can see for many miles, I assortained the location by calling up the "swark Star. Sot O'Hagan and George Poppe on the job and sent the Poral Searchlight over to offer its use to the "ewark Chief. Also went down in my car.

when the big blaze had died down so that all was samidarkness, ws drove the car into the yard of the Torks and the Chief enthusiactically welcomed it. Put it at work at onos, and it was a revelation to note how that powerful beam out through the thick smoke of smouldaring chemicals.

The Commissioner of Mewark as brought over by the Chief, and was very much impressed with the light. Told us to come around to Fire Meadquarters tomorrow to quote on two complets outfits.

The Supt. of the "orks area wants prices and deliveries on several of the two wheeled outfits for Industrial plant work.

Now as to the business end of this proposition:

I did not deliver that memo you wrote to Thompson, because I knew there rould be a discussion and it would result in my withdrawing entirely from the proposition. The reason is this:

Thompson scene to be nuite (salous that I will make too good a phowing on my one of the cales. Instead of being broadminded and the cales. The cale of being broadminded to be the cale of the company to the cale of the company to the cale of the company to the cale of the company that I will work more and more into there are no being and the company of the company is called the company of the company of the company of the company is called the company of the company o

I am frank to state that I am, in a way, chooting sparrows, anarties to a small matter like a search light, when I can apply my snarries to so much better advantage personally on large matters. But after I have gotten the thing systematized, it will be one more source of demand for battery, with someone behind it to make it a go. A specialty like this in the sales end of a large Company is snowed under by more important business.

As soon as this search-light matter was pushed aggressivemission to push it? Thompson sent a salesman post haste to the
De la Val Fire Apparatus people, to try to get them interested in
it. To date they have put in no order for the mission same
of but in taking at order to the hoppon he has openly
or but in taking at order to hoppon he has openly
on the contract of the buttery or search light purposes. Yet with about six
months in which to make sales, I am the only one who has purphased
any searchilght outfits. Furthermore, I have autory acount, for
the total contract of the different within the year, as that was the only
for the yearpose.

New York Caty has purchased from me and has installed three complete outfits, with charging boards etc. They 'me mounted on the water towers, Kepest to send me an order for ten more very soon. Jersey City has gotten the monay and is about to order one nearest will buy two. Baltimore wants several. So does infallo.

Young Kenkon has jumped into the Pire Dopt. end of it with me and has already spent considerable money in travelling expenses. Give the property of the proper

It soems to me it is about time for the Sales Dept. to think up some specialties themselves, or apply themselves to the hundred of more different uses you and I worked out several years ago.

This letter is in no way a criticism of Thompson. By pollay is to promote rather than pull down the welfare of every describing man we have. If I hand him he indefinite memo you gave me, he will at once say he has regestiating with the Be la Val Co. and the regestiating with the Be la Val Co. and that he confeinance of the idea, with the means and inclination that he are the confeinance of the idea, with the means and inclination to push it; I might have it exclusively for a period of two years, with rivilege of expending if I made good. If you think it still, I will go shead and push it for all I am worth. But I con twant to undertake it aggressively and spend money on it if I must split up with other Companies who may be attracted to it by the headay I have made and will make.

There are 80 many lines of activity on which that Company scalp I could waster it only owned or controlled it. I would waster my scalp I could quadruple the business within two years. There are thousands of people who do not know anything about the battery and thousands more whe think it is a frost. I had rather em it han all the rest of your inventions, as far as financial returns are concerned. That plant should be running overtime all the year 'round

For the sake of peace in the family, I suggest that you treat this new letter as confidential, penciling whatever memo you

. .

deem proper on a separate piece of paper, to be sent Thompson by Mr. Meadowcroft, with a copy to me, so I will know how to proceed. Valuable tims is being lost now, and I will appreciats early action.

Everything is progressing smoothly here.

The S-C battery test is under way. Gas analysis, chantitative and malitative will be made tomorrow. The members of the Board are anxious to get away to sea and wont wasts much time on froncy frills. I picked that board in its entirety, and had to upsat several Maval traditions to get man taken out of active duty and analgmed to such a special test.

mhese tests on Edison cells will be followed by tests on all other makes, All manufa turers have been asked to send some of their submarine cells to the "ary Yard for the test, It has stirred them up considerably, and they don't lake the cutlook. I really think the K-2-bust upreas a diseasing in disguise to us.

I called Meadoweroft up this norming to ascertain if the firelast night caught us on acid. The Supt. of the plant told O'Haran we had Is tens of sulphuric acid in the blazs, but Headoweroft says that wont burt us any.

Hot here today. Almost 70. Snow melting fast, and robins moodpecers etc. in evidence.

The lecture before the Tochnology Club, in N.Y. Friday high was a success. They kept me talking about you for three hours. I had II4 lantern slides and several recla of film. When your picture came onto the sort and they all arcse, out of respectly and gave you sort receively they all arcse, out of respectly and gave you are. I am to apast the lecture in Chicago next month for the benefit of some cruelty to animals society which the society people are behind. Rozes sell at \$500.00 each, seats \$25,00 stc, so I understant.

There are some early instruments in those cases that come back from the Paris Exposition which I want to photograph. Have I your permission to open the star cases, photograph the instruments, and return them to the cases?

When I make a pils out of Submarine Battery I am going to put up a fire-proof building somewhere on the grounds of the Lab and install all your early models therein, as a museum, Yeanwhile I think I will make a trad; with a Prisst to say a mass every week so they wont get burned up.

My respects to Mrs. Edison.

MERCHANTS AND MINERS TRANSPORTATION CO.

OFFIGE OF THE GENERAL MANAGER.

W. P. CORIA. GENERAL MANAGE BALTIMORE, March 29th, 1916.

FILE No. 5607 .

Mr. Thomas A. Edison, Orange, M. J.

COMPIDENTIAL

My Dear Mr. Edison:

Referring to your letter of February 23rd, in regard to our experience with the Edison Storage Battery. I regret the delay in replying to your latter, but same has been caused by the slowness in getting reports from our verious Engineers and Electricians, and by my continued absence from the city.

I have now had full reports from all of our people in regard to the use of the Edison Batteries, and these reports fully substantiate my own opinion that the Edison Butteries are very much superior to any lead betteries which we have used. We have them in service on sixteen of our vessels, for the auxiliary wireless and lighting service, and, out of thirty-five electric trucks, in use on our terminals, twenty of them are equipped with Edison Batteries. As soon as the life of the remaining lead batteries is exhausted we will replace them with Edicon Batteries.

My experience is that these batteries, while costing more in the first place, are more conomical in the long run, as they give better power, are taken one of with greater ease, give us more hours of operation, and are less succeptible of being damaged while charging. At our terminals the charging rouse are well ventilated, and the gas gives off has been hardly noticeable, the men in charge not experiencing any evil results therefrom. On the ships, where quarters are more contracted, some gas has been noticed, but it is consensus of opinion among all of our Engineers that the gas given off is not as much as that given off by the lead batteries, which we formerly used, considering the difference in size of the batteries. They also do not coneider that the amount of gas given off, with ventilation provided, is enough to injure the health of anyone working around them.

After using the batteries as we have, our confidence in them is so great that we have decided they are the only batteries to use, and have issued our orders to that effect.

Sincerely,

General Manager

Mr. Meadowraph MP. 18, saw this

Mr. Edison -Since Mayon 15 19/6 2 have Sold to The Mary & frmy - f nsa 2415-032 CE 137 13-4 673 B-4H 11 750 B-6H " 90 A-4 42 as H 2-5-6 # 28,493 ==

EDISON STORAGE BATTERY CO.

May 5th, 1916.

Mr. Edison:

I am sending you herewith Mr. Acker's report and diagrams of May let on test of heating unit for starter battery bor. As soon as Acker gets satisfactory results, we expect to run test in the refrigerator room of the Orange Brewery so as to get low temperature. If you have any suggestions to make, Mr. Acker would be glad to have them, or would it be convenient for you to give Acker personal instructions.

Watonmy deale

ECT SUFFEEDMEN

May 4, 1916.

Mr. Bachman:

Attached sheets show a test made April 17-18-19-20 during which the thermostat operated satisfactorly. Purther this thermostat promises, from the tests I have given it to be able to stand the vibration of a cor if it is mounted workload in I will send you a thermostat like it herewith. You will make a like it is along the standard of the standard the standard is standard of the standard to standard of the stand

In this test the thermostat headed only 1/8 amporel2 voits. The heater current headed and broken by a relay, one of the filler box roleys the filler box roleys the filler box roleys the filler box roles are the filler roles of 50 has to limit the owner or filler roleys which are wound for four try sells in one of the stander filler roleys which are wound for four try sells.

be made to handle 3 ampares 12 volts. They tried various schemes to make it operate but without success. It may tried various schemes to make it operate but without success.

Would do this without a success. It coult five times as much as a plain would do this without a sublind and is 2.5/6" thick. It may be possible to thermosta chilmor thermosta of the C. E. type which would do the cork and be cheaper in as much as we do not require so great a range of adjustment nor so great accouracy.

I will send you a resistence like the one used. This I think is mechanically very good, takes but little room, has been red hot without injury and tests free from grounds. The stock to is lined and filled with Alundum #R A.305 cement, which could red to roll be into lets. The resistence wire is \$21 advance above installed as tested tube. I think it will making several of these resistence inside a steel tube. I think it will be cheeper to use split to all shape to build them in. It is rather fussy to line the true and to an another a test the coil is inside fill it up to line to the true of the nafter the coil is inside fill it up resistence extending to make a sheet steel chape to replace the tube. The idea of I am going to make a sheet steel chape to replace the tube. The idea of I am going to make a sheet steel chape to replace the steel tube was to get maximum scenanical strength, as the resistance extending the full length of the battery tray is very much expected to find the resistance extending the full length of the battery tray is very much expected to the steel tube was to get maximum rechamical strength, as the

As to the boxes I have tried several different combinations to see which gives the best heat insulation. The attacks tables numbered 'I. II. III. give the results so far to the boxes when 40°s above the comportance of arriving at the matter of the boxes when 40°s above the room temporating at the partial as weighted quantity of hot water in came temporating the manual and observing the rate of cooling; this gives the boxes are to cooling; this gives the B. T. U. let per hour. Second by putting a resistance and the B. T. U. let per hour. Second by putting a resistance are considered to the cooling the water input until a constant temperature was reached inside.

this basis, the two methods check fairly well. Box $\sharp 3$ (10 bow hair fairly showed 30 wants by the hot water method and 32 by the electrical school Box $\sharp 4$ (1° cotton batting) gave 29 watts by the hot water school and 27.5 by the electrical.

FRISON STORAGE BATTERY COMPANY

MEHORANDUM

-2-

According to published tables of heat conductivity cotion will conduct heat only 1/2 as well as fait or inversely is twice as good as insulator. These test has been been considered by the second of the fait in the fait. There may be two reacons for that, lat the tables probably refer to high grade materials, whereas we have used the chaquest fait (log per lb.) and cotton (Gey per lb.). End - A large percentage of the heat may get out not straight through the walls, but through what might be ceiled leaks which are the same in either box.

Thinking along this line I had box # 6 made just like # 3, but with $1/2^m$ wells. It apparently tests out to be just as good as # 3, and sooms again to indicate that the heat gots out largely by leaks rather than by straight conduction through the wals.

It would seem that a further test of the 1/2" verses the 1" wall boxes must show more difference. Dessiby the fact that the paint on the 1/2" box is a glossy black whereas the other is now rather dull and dirty may have bome effect on it. However, 1 do not believe a 1" box will be enough better than the 1/2". The 1/3" makes a success and the 1 may be a success the state of the st

In these tests the covers were all screwed on and have 1/8" rubber gaskets. Also all the holes for wires and thermometers were packed with cotton waste. So while the test results seem to point to leaks it is difficult to see where they are.

A. J. Acker.

- I -

Comparative Test of Two 4 Cell Boxes.

Each $14\frac{1}{2}$ " x 6-7/16" x $10\frac{1}{2}$ " inside) 1" wall with $16\frac{1}{2}$ " x 8-7/16" x $12\frac{1}{2}$ " outside) oow hair felt.

Radiating surfact 6.28 sq.ft. #1 Metal & Metal soldered at top #2 Mapleframe 1" x 1" at top.

Four cans of hot water were enclosed in each and allowed to cool.

#1			#2		
Time	Lbe.Water	Op.	Lbs.Water	o _F	
8:45 A.M. 6:00 P.M. Temp.Drop	12-11/16	163.5 99. 64.5	12-10/16	163.5 100.5 63.	
B.T.U. los B.T.U. / H		817 88.4	75	5.0	
Watts Aver	age fference abo	25.8		5.1 10p	
Watts at A	DOF would be	19.1	18	.6 .96	

- II -

Comparative Test of Two 6 Cell Boxes.

Each 20-7/8" x 6-7/16" x $10\frac{1}{2}$ " inside) 1" wall 22-7/8" x 8-7/16" $12\frac{1}{2}$ " outside)

Radiating Surface 8.16 eq. feet. #3 Cow Hair Felt & metal to metal coldered, #4 Cotton Batting & maple frame at top.

Five cans of hot water were enclosed in each and allowed to

0001.	#3		#4	
Time 11:50 A.M. 6:00 P.M. Temp.Drop	Ibs.Water 18.65	0 _p 166.6 111.4 55.2	Lbs.Water 19.25	0F 167.1 115.0 52.1
B.T.U. loss B.T.U./Hr. Watts Averag	erence above F would be	room temp. 65°1	1000 162 47•3 65°F 29 3•5	5

111 -

Comparative Test of Three 6 Cell Boxes.

- Each 20-7/8" x 6-7/16" x $10\frac{1}{2}$ " inside) 1" wall #3 & #4, 22-7/8" x 8-7/16" x $12\frac{1}{2}$ " outside) #5 & #6, 22-7/8" x 7-7/16" x $11\frac{1}{2}$ " outside 1/2" wall. #3 & #5 Cow Hair felt and metal & metal coldered. #4 Cotton betting and maple frame at top.

A resistance coil was put in each box and connected in series.

Time	Amy	eree	Room Temp.	#3 B	ex Temp	<u>•</u> #4	#3 Wa	#5	#4
5:20 5:33 5:45 6:00 6:12 6:40	P.M.	2.9 2.9 2.9 2.88 2.88	80 80 80 79 79	93 108 113.5 117 118.5	101 114 116.5 119 119.5	108 114 118.5 123 124.8 127.5 128.5	36 • 6 36 • 4 36 • 3	34.1 34.1 34.1	35.5 35.4 35.3 35.1
Watts	P.M. at 40		78 75•5 ve room at 40°F	121.2 122 (aver	120.2 118.7 age)	127.2 32 3.92	35.3 31.25 4.35	33.3 27.5 3.3	34 •8 7

No.18282√

May 12th, 1916.

Mr. Edison:

I quote as follows from a letter received from Mr. Maurice E. Fox, dated April 24th, in reference to the business of Edison Accumulators, Limitod, London:

"The affairs of Edison Accumulators, Ltd., have followed their normal course eince my last writing. (Jan.16th,1916) Between that date and the present, the following sales have been made:

22 Industrial trucks 2 Half-ton chasses 2 One-ton chasses

3 Thirty-cwt chasses

23 Two-ton 2 Three-ton

5 Four-ton 3 Five-ton

Mr. Mudd:

Mr. Brommer of your department is supposed to send over every day the report of orders received, orders shipped and cells assembled. The report I refer to is the one on a little slip of paper, which has been sent to me regularly for the last two years.

Mr. Edison is very insistent on having these reports every day, and if they fall behind he does not like it, and is beginning to ask who is responsible for the delay. So fer I have managed to stave off trouble, but it is bound to come some day if we do not get the reports regularly every day. Then he will set the name of the man who is responsible for the delay, as he did recently in a somewhat similar case down in the ihonograph works. Headings to say, some discipline was administered.

I am writing this note to you so that we may not have any similar trouble in this case.

W. H. MEADOWCROFT.

EDISON CHEMICAL WORKS

II. A. HACHMAN, VICE-PRIN more at 1000's, Mo're

II. P. MILLER, THEAST MER W. D. MEADOWCHOPT, SECRETARY

J. V. MILLER, MANAGER

Polash CE STOO DO ANCH II

SILVER LAKE, N.J. May 18.

Mr. Thomas A. Edison Laboratory Orange, New Jersey

Dear Mr. Edison:

In answer to your request for price and printed matter relative to electrolytic cells, as advertised in Metallurgical and Chemical Engineering magazine for May 1, would say we immediately wrote the Electro Chemical Company, of Dayton, Ohio, and they answered under date of May 13, which letter we enclose herewith.

As you will note, they referred us to the Warner Chemical Company, of New York City, with whom we communicated at once. enclose this letter also, together with circular mentioned therein.

In connection with the price, you will note that same is given approximately in poncil on letter from Warner Chemical Company. We tried to get them to specify some definite figure, but Mr. Warner says it depends entirely upon the number of cells purchased and the particular layout designed. If I remember rightly, it was this concern who gave us a quotation on an electrolytic cell during the past winter.

I expect to be in New York tomorrow and will take the matter up further with them on the basis of converting chloride of potash made from feldspar into caustic potash, in quantities sufficient to supply us with electrolyte.

Yours very truly

EDISON CHEMICAL WORKS

JVM/K

The Electro Chemical Company

MANUFACTURERS OF

ELECTROLYTIC CELLS

CABLE ACCREES NALMOS DAYES

DAYTON, OHIO

May 13, 1916.

Micon Chemical Works, Silver Lake, H. J. Contlemen:-

Would monit memoring Br. Millor's letter of New jobs, regressing clettrolytic colle, our cells are for the production of Sodium Hypochiortic only. If you are interested in any thing of this sort, we will be very file to quote prices, etc. upon receipt of further details.

is a disphragment, whenever, what you need is a disphragment, when he are made to produce chloring ger and chief is sold. Cur colle will not serve the purpose of memifacturing cuncitie potteh, unless there was quite a change in the construction.

We suggest that you write the Warner Chemical Co., 52 Vanderbilt Ave., New York City, who manifacture disphragm cells, and they can perhaps supply your wants.

's stated above, if you desire cells. for producing Sodium Hypochlorite, we can undoubtedly mest your requirements, and would be glid to hear from you further.

Yours vory truly,

THE PROTECT OF THE TOTAL COLUMNY

EEU/H

The Warner Chemical Co. 52 Landerbill Ave.

Vow York; May 17, 1916.

FRANKLIN H WARNER, Socy & Trees

Edison Chemical Works, Silver Lake,

N.J.

Attention Mr

Gentlemen:-

Your letter of May 15th regarding Electrolytic Cells is at hand. We are enclosing our circular which gives a very good description of the Cells. We cannot recommend any less than 30 cells for an individual installation and as scon as you have decided as to the sizs of your plant if you will kindly communicate with us we shall be glad to give you any further information that you may desire.

Very truly yours,

Englosure

FHW-CM

Will you call work Dulphace - 6 Pod anh Carrolle palacel training the devenated mittonial want to produce 1000 (6, KOH

Each positive two of an Edison Cell has its equivalent negative iron capacity.

"Hence we can emsider a two as a two-pocket unit."

A G-11 CEll made + sold by our Company was The same size of tube - 3/10"- as a Submarine cell.

a G-11 has 484 tubes (44 per plate, 11 plates)

a G-11 Sills for #2750 list, liss 30% to manufacturers, or net #1925

184 tubes Asquirahut nigative commenty
Therefore, with accommanying other parts, sell for 1925

This is #3.97 cents per tule-pocket-unit-

Out of this you have to pay for grids, poles, rubber parts, glands, can, tray and equivalent factory over heaf of each such part.

also out of this 397 cents you must pay for Selling, advertising, inspection, guarantee and

administrative overhead.

In the Vickers Contract you get \$29.85 for \$10" tubes & per 1000 \$15.55 " pockets.

LUTTH Each 100 tubes there are 80 pockets.

Therefore each tube and pocket capacity unit sells for 3.729 cents.

You have no cost for grids, poles, rubber parts, glands, can, tray + Equivalent factory overhead of each such part.

You have no cost for advertising, inspection, of costs in advertising, inspection, of costs in advertising in the contract overhead of selling. I have also avoided all reference to quarantes in the contract

In other words, you get for tubes and pockets of Equivalent number from the Vickers contract, 93.9 percent of what you get for a complete G-11 cell, out of which G-11 price you have to pay for all boles, grids, rubber parts, glands, can, tray, tequivalent factory overheaf of rech part and also have to pay cost of selling, advirtising, cell in service inspection, quarantee, administration sypness and still derive a profit.

Speaking in terms of an a-+

a 1/4" tube active material 41/8" long, haske cubic content of 202566 cubic inch.

a 1/16 "tube, ditto, has .1139 4 cutic inches.

Therefore a 14° tuk has 1.777 times The cube contents of active material That a 310" tuk has.

an G-4 has 120-14" tubes.
120 x 1.777 = 213, or practically The number of tubes Then are in a G-5.

a G-5 sells for \$13, = 1 liss 30%, not 9.5

213 tute-pocker units \$ 92 = 4.43 Crists

from this 4.43 cents for must pay for all grids, poles, rather parts, glunds, cun, truy, tequivalent factory overhead great part.

Also for selling, advertising, cill in service inspicting guarantee, administrative expinese, and still have a profit.

Jon get from Vickers tutes-pookets alone 8490 g what you get for a complete 9-4 Equivalent in 310" take CEII. The G-5.

"A Stady of thise figures will show you think is either a horrible loss in making, selling, service and guaranting . A and G cells or that the prices ... we are asking Vickers show a very large... profit.

... The Company could not keep going ... On A and G cells if Vickors prices ... show may a small profit.

It was with a realisation of the high price named on Vickers tabes and pockets, with consequent large profit that I felt the commission I suggested was reasonable. In View of the fact that I have engineered this British deal from the initial interest aroused Syears ago, interesting Vickers through Poritish Daval Officers between Cost Saville) and finally getting them to waive active material manufacture and consider the Submarine separately through my friend Sheridam, whom I visited to washington especially for this purpose.

I am inclined to believe that 7% of the net profit you will consider too low after you have gone onto this, but I leave it to you have gone onto this, but I leave it to your.

a- 13.5 costs complete with facting orather of the first fine i pto or \$3.48 Jun an 220 tubes, and regarded compacting a costrol \$3.46 or 1.581 & per.

Mrssll /2 3.729 2.1484 Pnjir 235-96

\$ 1,000,000 to order means 27,000,000 her jobs. 79, 07 2.148 \$ = \$.0015-03 6 mol 27000000 X 50015 - #405000

WESTERN UNION ANGLO-AMERICAN DIRECT UNITED STATES CABLEGRAM

Received at 16 BROAD STREET, NEW YORK

N BR 457 RH

20593

LONDON 34

CLT ZYMOTIC FOR MR EDISON NEWYORK.

REQUEST YOU NOT MAKE ANY ARRANGEMENT FOR MANUFACTURING ENGLAND BEFORE I SEE FOR YOUR OWN INTEREST STOP APPLYING FOR PASSPORT AND WILL CABLE WHEN SALLING.

MONNOT.

Mr. Edicon & Math Joreign Dept % Thou a Edison Inc. 48 best 13way The matter of changing the form of guarantes on army Mary Batteries to originate our standard truck butthey gudiantees has ansen. If such change is made, it will materially officer the status of the battery because: (a) - The quaranter as it now stands is an indication of our confedence in the battery. (b)- The namy stypt. are tisking as \$10,000,0000 battleship on The reliability of the gun firing or turnet lighting battery and say the Edison is the only fathery made in which the minufac-Tures have a millionth of the confedence They want the Mary to mipore in There. (c) We have about \$600.000 00 worth of batteries in Service in The army Many and our total replacements of standard

Author has my exceeded thing or from colls buring the part fire years.

(d) - There is no sorrect expense in connection with a Government Battery, where a truck buttery to is a constant source of where is to the Company for the services of where is to the Company for the services of whose of majoritists.

(E) - Grorumewy Cells are not subjected to the hard work to which truck hatteress are subjected and therefore last for years. They are also much expert attention. (f) - When the Co. Soldo a bather; to the army or Navy the lotal solding Expense is the 20% of my downtown. When we sell to a tribol manufacture, I ar described of from 20% of 30% + 5%, the Sales Expense of the Bathery Co-has to still a paid our of the net price.

Therefore, with all the choice justo before you, and the statement of Southernort Lambers that our guarantes of the Confidence inquident on us, thereby surdere theoretical for the 200 traded lighting buttered to made largery due therety. I mospecificity receive that the guarantes of alliers to stand on it is written in the standed book.

July 19/16

MiBachman approves of this

P.B.Shlaw Pennsylmania Building Philadelphia, Pa.

Personal.

Lo un fine de la Maria de la 1916.

Lo un fine de la Maria del Maria de la Maria de la Maria del Maria de la Maria del Maria de la Maria de la Maria de la Maria de la Maria del Maria de la Maria del Mari

There has been that talk over hire recently many bushers and others should tapper of the investigation of times many conditions, and temper of the investigation of the investiga

right for floatations of this class of enterprise on a large scale.

Unclicet you know the storage

It has occurred to me, - Why not divorce the storage

It has occurred to me, - Why not diverce the storage batteries from Raison, has med commission me to inegotiate of a contraction from the contract of the cont

With kindest personal regards, I am

PBS:MGT

Progra

MEMBER NEW YORK PRESS CLUB

"THEORE:
1784 MD. MAIL.
NEW YORK CITY

C. W. MCMORRAN

SPECIAL WRITER
62 MADISON AVENUE, AT 27th S

(1)

NEW YORK CITY

Thomas A. Edison, Egg,

Dear Fr Edison:

Say-Battery tree

Now in the halls of the U.S. Office

buildings in Washington, D.C., there seems to be a mile about each floor and two and from the Senate office building and the Capitol building these, as per cut, could be used a hundred of of them, IF IT MAD AN EDISON STORAGE HATTERY, which would do away with the noise which would shut off the kind shown in the cuts. I feel this would be a fine untertainment to have these "SKATE-MORILES", with strage batteries, and submit this suggestion to you, asking if any thing is done with the suggestion you set asside some portion of the profits, or ammount of sales to

your F.Y. newspaper friend,

You remember I had the honor of stending with you, on the Court Of Pleanty, at the Exposition, San Francisco, when 25000 were waiving greetings to yo, and we had a little chat.

THE WORLD: WEDNESDAY, AUGUST 23, 1916.

SKATE-MOBILE TANDEM WHITE SLAVE, ILL, GROSS FIRE LAXITY FY SKIDS ON BROADWAY MOVES GRAND JURY, CHARGED TO FT

Stand-Up Auto That Rushes at Any Pace Is Kids' Device, Motor Driven.

There you are—the vary neveral means of gasoline leconomisted:

Just what it is it is hard to say, technically the silvers were going so fred they conside the position to the second with the consider to position. But it is the strat activit whate-mebble to the secon so the consideration of the consider

graphed at Ferty-aventh Street and freadway, has two wheels about alxten inches in diameter, shed with cushien tires. The ferward wheel is aurmounted by a tiny meter which does the driving. Between the wheels, underslung, is n platfern about eighteen inches

spinterm about cigitized inches wide and perhaps three feet Jone. The thing drives like a bloyds, but the circumstance of the



| TO INDICT QUICKLY| IN BLACK

David Parish, Alias Siberia, Witness in Another Case,

to Tombs on Girl'
of Rare Br

LEFT TO S

Earr

John Tellenn !lanuging! Octob	ol. The Thomas (1. Edison Tolephon Mayed, 5490 19 times. Director Accumulation Tolephon Mayed, 1936 South n Accumulations I,
Exclusive Lice	nseco for the British Islan of the Edison Storage Buttery.
Works:- 14, Alphu 1 Chel.	sen, S.M. 2 & 3. Duko Hirol.
	JEM/AMP London 14th September 1936.
EDISON ACCUMULATORS FOR AUTOHOBILE LICHTING	Thomas A. Edison, Esq., Edison Laboratory, ORANGE, N.J.
SELF STARTING & IGHITION	Dear Mr. Edison,
House LIGHTING	I returned safely after a slow trip on the
RLY. TRAIN LIGHTING	"New Amsterdam", and since my return I have been busy with matters that have been left for my attention.
YAGHT LIGHTING	
WIRELESS TELEGRAPHY	I am returning today to Hutchison one of the copies of the letter agreement modifying our original contract signed and sealed at our last Board Meeting,
SUBHARINE VESSELS, ETC.	and I am keeping the other copy, which I will return
COMPLETE	contract signed and select acopy, which I will return by next mail in case this first letter is lost, as it possibly may be.
Europea Venueres	

twin you for your kindness during my short say in Orna and I on a saure you that the results I accept to obtain will be entirely satisfactory to you fire only trouble now is that the buttery works have not yot delivered a number of orders placed some time ago, and we are getting short of cells to fill our orders.

to obtain a solition regarding the shipment of industrial diamonds that you require, and it is very difficult to charge anything in the rules laid down. It appears that a large number of industrial diamonds have gone from the United States to Germany, and the special committee of the suppointed on this matter works every alony will advise Mr. Emery by cadhe as even as I have a final answer, but it may not be favourable.

With best regards,

ELECTRIC VEHICLES PLEASURE CARS COMMERCIAL VANS OMNIBUSES

RAILWAY & TRAMWAY CARS LOCOMOTIVES PTC PTC

Yours sincerely,



with the Writer was visiting your plant last efficient with the Harvard Engineering Society, he had the pleasure proceeding your "tube seaming" machines thich make the tubes for your storage bettery. So that you will understand just what we mann to enclose a clipping from one of these tubes.

attdation of Er. Eutenison:

Centlemen:-

To are very much interested in securing a similar to machine, but to be used for an entirely different purpose that NUMF own. "Se would want the machine for making pencil tips, (the spain ferrules which go on the end of a pencil to hold the rubbered to the security of t

We would appreciate it greatly if you will tolk unwinder what conditions you will give us the drawings for this machine or inform us where it could be built.

(Two)

Edison Storage Battery Co.,

Sept. 21st, 1916.

Thanking you for the courtesy of a reply,

Yours very truly, EAGLE PERCIL CO.

er Colwin M. Berolyhamer

Wattery- Storge

October 9, 1916.

Mr. Edison:

I am in receipt of a cablegram from Mr. Monnot dated London, Repterberrata October 7th, as follows:

"Cable received. Have consulted my patent attorneys, who state positively you can send batteries formed without state positively you can send batteries formed without injuring patent situation on account our having worked process continuously before war. Forming here would entail further delay and as delivery is vital pleuse send battery formed. Had recently two more interviews with clients and have arranged for other orders provided first order is delivered promptly as delay is cause of whole trouble. If drain those causing delay ont same and onthe at once earliest delivery, also if you still need Fox he can eatl next Saturday if necessary.

Lionnot."

Copies to Messrs. Bachman and Thompson

BATTERY STORAGE -Sales

Oct. 20, 1916.

Mr. Edison:

In reply to this letter, I sent the following cablegram, deferred rate, to Monnot:

EDIBATTER LONDON -

BOSS DECIDED TAKE NO LETTER RECEIVED.

FURTHER ACTION UNTIL CLIENTS ORDER SUFFICIENT WARRART ERECTION PLANT.

MASSACON.

Respectfully,

H. R. HUTCHISON

The patents all well soon Experient Except tithe patent The Mount can defend weathout any neglite for suff defend weathout any neglite for suff So I do not think I will gurran right of rufi

COPY

EDISON ACCUMULATORS ETD.

2 and 3 Duke St.,

London, S. W., 27th September, 1916.

Dr. E. A. Hutchison, Chief Engineer, Edison Laboratory, Orange, N. J.

My dear Hutchison:

I received your letter of the seventh instant, enclosing copies of letters you have addressed to Sir Trevor Dawson and to the Haval attache in How York. I do not suppose it is any use for me to make any comments, as what you have found out is exactly what I told you and The Sixon I expected would heppon. But I did not think it had already gone so far. I am having an appointment with the dairealty to clear up this matter, but the worst is that I have learnt this morning from a reliable source that Vickers are going on making preparations for manufacturing and have made a thorough investigation into the patent situation here. They have stated that one patent was expiring soon and that they were soing to apply for the right to use the existing patent on the ground that we do not manufacture in this country. You will remember that they have already stated that to you through their representative. I was also told that they knew a great deal thore than I did suspect, and that they had been catching me for over twelve months. They must have spice everywhere. The worst of it is that you made such case of Saville. You will remember also that I told you that I would not have anything to do with Vickers or their people, and this makes my conviction still stronger, and I suppose that all their staff has been trained to their way of doing business. I could say much more on this subject, but it would be of no use at the present time, but I wish you would impress on Mr. Edison the absolute necessity under the present circumstances of arranging promptly to give me or Edison Edison Accumulators Ltd. the exclusive license to manufacture cells under his different patents in this country. From your cablegram I know that you are now convinced of this and as Vickers may make an application at any time to the Commissioner of Patents for the use of the Paritab battery patents; I ought to have this contract Exercise from Un. Edison so that we can defend the case. At the same time I think it would be well for Mr. Edison to give me power of attorney in this matter, if he has no legal representative here, to take up the matter with the Commissioner when called upon, as if there is no defense Vickers application may be granted with-

-2-

out a hearing. If he has a legal representative here, ple age let me know so that I can get into communication with him when the time comes. We could always actend the lithing patent, as we have been doing the work, incorporating it in the unils and forming the batterles.

Mison immediately on receipt of this letter, and if he agrees, as I expect, to give the manufacturing large and set away, the papers should be drawn up immediately and signed by him, and sent to me for signature.

I am sending you this letter through my brother in Faris, so that he may read it before it is posted.

With regards to all,

Yours sincerely,

(signed) J. F. HORNOT.

THE EDICON STORAGE BATTERY.

The electric battery is a device by which potential energy is made avail-

Enterios are of two general classes, - grimary and secondary. The latter are usually known as storage batteries in this country, and as accumulators abroad.

Primary batteries commume their elements in the production of electricity, or, to be more securate, change their chemical condition in such manner as not to be readily restored to an active state - the action is irreversible.

Storage batteries change their chemical form in such ranner as to be readtly restored to active occilition by the massage of an electric current through them in the reverse direction - the action is said to be reversible.

Storage batteries in turn are subdivided into two general classes. The older of these is known as the lead-acid type. It is represented by the products of practicelly all the computators of the 2d son Storage Entroy Company. The 2d son bettery is the sole representative, with one or two minor exceptions, of the alkaline true of storage bettery.

In basic principle the two types are the same, but materially they are en-

tirely different.		Lead-Aoid	Alkal		
				Potash	or
Blootrolyto Solution		- Sulphuric Acid	Cnustic	: Soda.	
Positivo Activo Material		-Peroxide of Load	Hickel Hydre:	:0	
Negative " "		-Sponge Lead	Iron O	cião	
Supporting material of th	e Platce	Lead	Nickel-	plated	Steel
Cell Contains of Jar		-Glase or Hard Rub)	bor "		ıı
Plate Separators		Thin woodensheets	, Hard rubbor	stripe.	,

A study of this comperison reveals the reasons for some of the advantages of the Eddson battery over the clier type. The use of steel instead of load in the plates and instead of rubber or glass for the contenter, makes obvious the lighter weight and greater ruggemess of the Edison battery. In addition to those edvantages, the chemical combination in the Edison battery is such that it is more completely reversible than is that of the lead battery, honce the battery is less self communing and much longer lived. This feature makes possible a four-pure communities in commercial trunk service whereas the longest head battery guarantee is for try spars.

The notive interials of the cell are contained within perfected steal receptuals which are mounted upon the steal grids to form plates. In the positive plates these containers are cylindrical while in the negatives they are rectungular and flat. Whis construction prevents the notive internals from separating themselves from the plates, thus becoming inactive and procipitating themselves to the bottom to become troublesses as sediment. It is this frature that from the Edicon lattery of the necessity for internal cleaning such as is necessary with lead batteries, those notive internal cleaning such as is necessary with lead batteries, those notive internal are applied to the surfaces of the plates in the form of paste. The pasted interials of the 1 and lattery are always precipitated to some extent and may be through down with great rapidity unless more or less expert care is exerted in their operation. Also special care is necessary to prevent the sulphuric soid noting upon the plates in such manner as to seriously injure then when this occurs the calls are said to be "discassed" with a maledy known as "Sulphation", Thore is nothing manleguous to "sulphation" to which the Edicon battery is subject.

Freedom from sodimentation and sulphation reduce maintenance expense by the reduction in regair costs and in the cost of attendance.

To summarize, the grincipal advantages of the Edison battery are:

Long Life

Ruggednoss

Froodom from Biseaso

Lightness in weight

Simplicity of operation requiring mini-

Freedom from Internal elecating

Ability to stand in charged or discharged condition without injury.

Cortain disadvantages are alleged by competitors:

 High price, - boing shout twice that of the lead battery.

The initial high cost of an Edloon Entrary is more than effect by ite lenglife and low maintenance expense, making the everage yearly cost of expension such lower than with the lend bettery.

> High internal resistance, causing a lessoning of gower, under heavy loads, manifested for example in low speed on hills.

It is true that the internal resistance of the Educar battery is higher than that of the lead bottory but it is not true that it seriously effects operation. This depends upon the design of the apparatus with which it is used. The characterictics of the battery must be given consideration in such design.

5. Inofficiency, resulting in high cost of

The efficiency of the Edison, over an extended a riod, is equal to that of the lead bettery. In the beginning it is lower, but its officioncy is retained while that of the lead lettery gradually falls off. But aside from this, the difference in orfology is not important. Of the entire cost of operating a truck (including

degreeiation, interest, etc.), the cost of ourrent does not exceed 10 garcent. Therefore a difference of even 20 general in officiency would rute a difference of only 2 percent in the operation of the vehicle, which is insignificant because it is many times offset by savings in other respects.

4. Effoot of cold.

The effect of cold has been one trely multified by suitable bettery compartment design. So substantiate this, it is only necessary to mention the fact that completely satisfactory corvice has been rendered throughout winter seasons in such localities as Winnipog, Canada, where temperatures as low as 30 and 40 degrees below zero persist for weeks at a time.

There are various types of idiaen batteries, designated by letters and numerils, as i-4,i-9,B-6,3-9,G-7, etc. The letter indicates the kind of plate in the cell and the numeral indicates the number of estive plates, the number of acquatives being elacys one more.

(A" and "B" plates are thicker than "C" and "J" plates, but otherwise all are alike in comstruction. "B" and "J" plates are half the size of "A" and "G" plates respectively, that is, "B" and "J" type colls are approximately half the height of "A" and "G" type colls.

There are also "M" type colls for Miners' Lemps and Metercycle Mighting and "B" type colls for Subvariace.

"A" and "a" type colle are used for vehicles and for other heavy sorvices, the "9" type being offered in special cross where high discharge rates are remained.

"B" and "J" type cells are used for lighter services.

The principal uses of the Edison battery are as follows:-

GOLDMOIAL WHOME. Shis term includes all street vehicles designed to carry morohandise. In this field the Edison Entery holds from 25% to 40% of all the business in the United States.

<u>involata valene</u>

This term includes merchanise trucks used indeers or about gards, doein, etc. About 80% of such trucks in this country are equipped with addison batteries.

ACCOUNTIVES. Storage battery haulego in mines and elsewhere is raguly oming into shows with operators who are recognizing the advantages of displacing the old systems of animal and steam locasotive haulage. The Edison battery has claimed at heat 40% of this business.

MINE LAMPS.

117 J. W. 1050

The Enttery Contany standards or a complete mine imp isoluting battery, battery case, the cord actording from bettery case hung at the male to the light on the case, and the case lamp or head-piece. It was the first lamp approved by the Bureau of Mines under recent rules, more stringest than in the past, and has not with great favor in the field. Shedwards of then are now in use in Ponnaylvenia and West Virginia coal mines.

PALIFOLD SERVICE. Over one hundred of the unitreds of the United States and Conada use the Editor Attent to the Misson Attent for twin lighting block signifing, or switch operation. About thirty (0) roads, (smong them such important lines as the femmestarnin R.H., On ther Jersey, Baltimore & Chio, and Illinois Construl), have signed agreements for the exclusive use of Edison Exterior in one or more of the above services. In the ordinary organisms of a day coach an Edison Extery moves one ton in weight - 860 lbs. against 2800 lbs. and such tray in of such weight as to be readily handled by one man. In signaling andswitch service a great saving in town construction expense in effected by the use of Edison Exterior because of the Sabsine of Taxon injurious to surrounding apparatus. With the lead battory a separate to betvery house or room is usually built.

ROUSE LIGHTED. In my localities public electric service is not available and a very considerable business has been developed in furnishing country hones with electric light plants consisting of gas engine, electric generator and storage bettery. The battery stabilizes the voltage while the generator is running and supplies the nonessary current when the angine and generator are not in operation. Because of its simplicity of operation the Edson Battery is particularly desirable in this service where expert attendance is not available.

There are numberous other applications, such as ignition and lighting of automobiles, metorcycles, and motor boths; trunch lighting, con firing and sight lighting; emergency wireless and lighting on steam vossels; the propulsion of electric laumchos; for time recording and fire alarm systems, and for many other uses. The Engineering Department is always glad to give attention to aposial applications with a view to detormining whether or not a battery is possible or desirable.

December 4, 1916

r. R. A. Bachman;

Horowith I hand you a lotter from Hitsui & Co., Ltd., in regard to the sample board, which Hr. Edison is presenting to the Eyote Importal University.

You will note that when the sample board is ready it is to be forwarded to Mitcui & Co., Ltd., Engineering Lepartment, 25 Indison Avo., How York City, M.Y.

Will you plosso give instructions to have transportation charges propaid.

W.H.ME.DOWCROFT.

A/1449.

M'. Hulduson Ushan, Edw. Marshall west alres inor time by Ton auch him full and said we would confee with this head of British and Dots, with a view toward interesting I received a sable from him last night as folliers. Varis, Sec 16 1/10. Muximo Jon should come trance immediately, begand two wo important and wisher Poply instantly Critica Hotel Paris! Very gird reception assured. It is practically impossible from in Paris and is well posted on Submarrier Battery, Damilton In cabling marshall too follows 1 " Strgint matters prevent departure now. Our wenker Mairice tox France frefuty thoroughly

Dec. 18, 1916.

Mr. Edison:

I received the following cablegram, dated yesterday, from Monnot: CABLE NAME ANALINE DIE REFERRED TO BY MR. EDISON DURING CONVERSATION. URGENT.

MONNOT.

He evidently refers to a conversation he had with you when he was in Orange. If you can remember it, and will advise me, I will communicate with Monnot. HUTCH.

anide to fit IN

December 23, 1916.

Mr. Edison:

the Havy Yard Brooklyn, a few of the Type H-5, mining lamp cells, to enable the lawy Department to determine just how long a lamp, depending upon the Edison Storre Batteries, could be loft standing and still get enough light out of the lamtorn to be of practical utility in time of morresure.

The cells we sont over were made up from the tubes sken from the cells we made up for Ford, and as you know we have had trouble with tubes made up from these Ford cells which were lott standing in a dry, unformed condition for quite a long time.

In the tests that were sade on those ed has three or four times to be sure that they were strate or continued three or four times to be sure that they were sailly charged. They were of content they were sailly charged. They were of content to the same of the

The results of thotost were very disampointing. From previous experience with "Adison Cells, the personnel of the lawy Yard expected to be through with the test and to O. K. Riston Batteries for use in Lastorms of this type. But the result of the testabove referred to rendered this impossible.

mother set of tests, and for that unpose would like to ourry on the set of tests, and for that unpose would like to have two doesn cells, or twelve pairs of cells for mining lamp, He unnat to be sure that the cells are of the best cossible construction, so that they will show up well on the test.

I therefore suggest that you C. K. this memorandum and will pass at a long to the Storage Battery Company. I feel sure that they will take extra procautions to have the batteries in first class condition before sending them.

The shipment is to be made on consignment to

The second second

Hachinery Division. Hew York Havy Yard. Brooklyn, Hew York.

M. R. HUTCHISON.

Mr Edison The argentine Navy wants one of own No. 2 Sureti-of part 13 and 5, Storage If Jen will OK This Dwill Ofaxinsh Batteny Co-Shipping Instructions Sic 30/16

Edison General File Series 1916. Battery, Storage - Edison Storage Battery Company (E-16-09)

This folder contains correspondence and other documents relating to the business of the Edison Storage Battery Co. Among the documents for 1916 are tiems concerning investor relations, product guarantees, and royalties accounting. The correspondents include stockholder Arthur I. Clymer and Stephen B., Mambert, vice president and financial executive of Thomas A. Edison, Inc.

Less than 10 percent of the documents have been selected. The material not selected consists primarily of routine interoffice communications and other items pertaining to sales and marketing.

STOISON STORAGE BATTERY COMPANY BATTERY, STOICH 6E.

SUP-

Hutch

200 HOT-2-117

Mr. Edison and file:-

rhich Kr. Hutchison his saked that we print two hundred copies of for his use in selling wireless or gun firing batteriet.

that these pursuances who only issued over your streamy understanding that these pursuances who only issued over your streamy and in the second place feelly think that the antire remarance is too broad to put outly wholesel lots as it is lir. Butchison's evident intintion to do. Fractically all of the ignition and lightly sets which we sell are sold without guarantee and I do not bee why it is necessary to issue those from you to put this from of guarantee out or to issue, for that matter, any form of guarantee for ir. Butchison, I do not feel that I have any authority whetever in the premises.

Wont you kindly advise me how you wish me to handle this matter?

H. THOMYSON.

Enclosure -1

[ATTACHMENT/ENCLOSURE]

THOMAS A. EDISON

R. A. BACHMAN WEE-PRESIDENT & GENERAL MARKS H. F. MILLER TREASURER , H. MEADOWORDFT

Edison Storage Battery Co.

Orange, N.J.U.S.A.

IN REPLYING ADDRESS THE

THE EDISCN STORAGE PATTERY COMPANY hereby guarantees as follows all Army and Navy Special Edison Storage Cells, indicated by the letters "ANS" stamped on the filler cap of each, and purchased during the year 1915.

If, at any time within a period of five years from date of whipment by us, irrespective of the number of cycles of charge and discharge they will have had, any of said calls are found to be incapable of developing rated capacity after a charge of twelve hours at normal rate, we will, at our discretion, either reput the control of the proper capacity, free of charge, f. o. b. our Works, Orange, New Jorsey.

Copies

At any time during or at the end of the sixth year, we will remew all positive plates to restore the cells to full rated capacity, for one-half the orignal price of said cells:

please have

PROVIDED, however:

- (a) That all said cells have been purchased by the government directly from our Main Office, Orange, New Jersey, and not through any dealer.
- Mosses The

allen

- (b) That all cells are installed in a manner approved by us.
- (c) That all said cells are cared for and operated in accordance with our standard printed instructions and lead to be constituted as one of new transfer of the constitution of the const
- (4) That the Commissioned Officer directly in charge will give his personal attention to the mixing of the dry chemicals and distilled water when necessary to remer the solution in any of said cells, and as to keeping the cells dry and clean externally.

RDISON STORAGE BATTERY COMPANY.

THE INVESTORS' AGENCY, INC. ARVYN SCUCIER, PRESIDENT ARVYN SCUCIER, VICE PRESI HILIP J. SCUCIER, TREADURE BATTERY COMPANY STOCK. Mes 71 Uson the request of the appraisers, Estate of Abram Alexander Smith, It is necessary that I ascortain the yalue of the above security as of the date of death, and would accordingly request that you inform me as to any sales or quotations of the above security that may have occurred at any time near the date of death. The above corporation, we know, is a rather close corporation, and in order to arrive at a fair appraisal of the security held by this Estate it will be necessary for you to furnish us with a statement of assets and liabilities and income account

for the years of 1913, 1914 and 1915.

remain,

I trust that you will see your way clear to submit this information as soon as possible and



Fobruary 14th, 1916.

Lybrand, Ross Brothers & Montgomory, \$55 Liberty Street, New York City.

Attention: Mr. William M. Lybrand.

Donr Sir:

and in accordance with our co-operative understanding expressed in your letter of Howeler litt, 1918 to lir. Edison, it gives no pleasure to saviso that the Pirandial Brunch of the Edison Storage Subtry Corpus will be ready to reactive your men for the lovecher 30th and it of said Congany's books on Manday, 'polymany' 14, 1916.

time between neversors of the disposed the between the two and the data on which we will be ready for the aucht, but fully believe that the care with which we have curried out your reconvendation to the Milson, as stated in your letter of Howshor 11, 1915, will, in a reasure, justify the longth of time in this particular instance; and in the Tuture as we become better sajusted to your regular quarterly audits we feel that this time can be very materially reduced, both to our con satisfaction as call as yours.

Hoping that this will work out to be mutually satisfactory to everyone concerned, I remain,

Youro vory truly.

PINANCIAL EXECUTIVE.

9 could not over well make the Exchange we are Ecommo in battery from 250 to 275 coo year with a loud pour character were it not that year with a loud pour character were to not that like are some up more than service to gray 27 2913 as and were the service the service to gray 27 2913 as and were the service than they are chean

Five years so, you very kindly consented to sell me a hundred phase in intervaling storing pattern to. the price you asked beinging. I have so philituous to be storing in the property of the salign better that I rent to an extreme for one of why this to exhaust the property in the property of the salign better that I rent to an extreme for one of why this to exhaust the property in the property of the salign better that the salign that it is not to an extreme to another, in the property of dividends, and the investment, figured at air portent, non stends as over \$13,000. The fact that there are no dividends near in sight need not cost you so consist you can so so the property of the property of the property of the conferred upon the world, are or rich san in point of health, happiness and saterial reast. (Although, I am sell aware that you have not received one ten-thousandth part of what you have been entitled to for your inventions in inversal use.)

In not conforting or reasouring, and I beg you not to think me precumptive in making a scooled request; it is a favor which you are in position to grant as if your kindly spirit sove you to do so. In view of the price I paid you per share (*100) for the battery stock and the five years' use of the fund, will you be scool enough to give me a bundred shares of thomas A. solven, inc., in exchange for the hundred shares of battery stock? The samy friendly latters which I have received from you. Er. bidson, have sade me feel that you take an interest in me and I shall feel grateful to you beyond expression. Amxiously senting your reply, I am

miller roor devoted friend,

you will not consider from A Chymer

Consider to a will good to the former to the for

wherein you stated that you could not very well make the exchange I suggested. I gave you the situation with reference to my financial condition and will ask you if you will not kindly receive back the 100 adison storage battery shares which you let me have. Taking them at par, -- the price I guld you for them, -- you will have had the advantage of five years and four months' use of the money or the conivalent of a 62 annual dividend for that length of time.

Your reason for baying preferred not to make the exchange of battery shares for Thos. A. Edison Inc. must have been that the latter has a larger surplus -- I do not kow whether the latter company is paying dividends. I cannot blass you for not wishing to make this exchange of shares if it would be to your disadvantage. But I do most earnestly beg that you will not refuse my present request, in view of the fact that you have already owned these shares and they undoubtedly are north more now than they were when you sold them to me.

Anxiously awaiting your reply, I am

Yours very truly,

Ä.S. Clus

Box 351

THE INVESTORS AGENCY, INC. ay that I have never heroud IN RE EDISON STORAGE BATTERY COMPANY, STOCK Dear Sir:-(ccy 1/2 dozen peaper of the State of New York as expert appraiser of unlisted seahave to report upon the value of the above escurity which is held by the Estate of Abram Alexander Smith, deceased December 13th, 1916. It is necessary that I secertain the value of the above security as of the date of death, and I would accordingly request that you inform me as to any sales or quotations of the above security that may have coourred at any time near the date of death. The above corporation, we know, is a rather-closs corporation, and in order to arrive at a fair sppraisal of the scourity held by this Estate it will be necessary) he Edicorfor you to furnish us with a statement of assets and liabilities and income account for the years of 1913, 1914 and 1915. I trust that you will see your way clear to submit this information as soon as possible and remain, Very truly yours, have bush . Ask Halder of eas are competed to do the

The market green and to accept a circumstance as to accept, when you had written and states which which with and information? If not use to so that care to seemed you with the taponalist of the seement of the seement of the seement of the seement of the area of the seement of the artificial of the specialists.

SIROLIN 366 4 367 CANAL STREET CENT OF PURCHASE CHEST PEARS' SOAP JUNIOR SUN NATURALS Edwards. NEW YORK TELEPHONE 1028 SPHING *OBLOR "PEARS" NEW YORK Boston Thass. July 21-16 Enison Storage Battey Go Theit Orange Mig. Just having received any reply from you to ray letter, of the 18th and 1 1th inster & an westing again to see if you will the the face rather of the trick the truly in the face rather of the trick at That Orange Mr.J. I have town placed the found with at The theory Bourt of But in for collection, It was betoned The Antions Chemity Bourt of But in for collection, It was betoned to this faint by this by, conselected, attached to The bond is a contificate from the clash of surrogate bon. I of the bounty of New York of my appointment as executor of the will of Halter Jamie

WALTER JANVIER

WALTER JANVIER

365 & 367 CANAL STREET NEW YORK 232 & 234 MANDOLPH ST CHICAGO ILL 186 PUNCHASE ST BOSTON MAND

PEARS' SOAP
STONE'S LIME JUICE
NATURALIS

SIROLIN CO.

365 & 367 CANAL STREET NEW YORK

> TELEPHONE 1028 SPRING CARLA ACCRESA "PEARS" NEW YORK

I have also endo red the band on the back.

They brother Halter Jangier was born you. 27.1849

Janvier and barak Harrison Januare

Janvier and barak Thatter Januare

To fish fresh of giving or taking with the signer

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findly pay it when it is furnition to the busk

A. I. CLYMER

Day know all about manner RK October 26, 1916

My dear Mr. Edison: Experiment of Santhung william to Hope to do Santhung william to I sm delighted to read, in your latest kind letter,

that the Edison storage buttery business is doing splendidly, and am not at all surprised, as I have had the very highest expectations for its ultimate success, ever since the day I read the first extended and all-absorbing description of it. but its least to get it aluming

I have just read, in a city paper, the following :

On some Prussian state railway lines, storage battery cars are being operated at less expense than either steam or gasoline-electric cars.

It occurred to me that you might core to obtain definite information as to the characteristics of these care, either through correspondent with some scientific or railroad friend in Prussia, or through some railroading friend here who can obtain the information through a qualified Prussian correspondent. I have thought that they may be using some advanced type of gearing or other machanism, which, plus the Edison battery, would enable you to put out an equally desirable storage battery car at home.

Yours very truly,

October 30,1916.

Van V rt, Ohio.

Dear Mr. Clymer:

Let me say in reply to your favor of the 26th instant that I know all about the Prussian Religional experiment and have all the data relating thereto. I hope to do sessithing on this line in this country, but it is hard to get the plan started.

Yours very truly,

SCE-OM X LAMAN 19

PRINCIPLE MEMORANDUM No. 350G
DATE 11-28-16
EFFECTIVE COntinuously

.... Socretarial Service Dept., Arthur Haid, Sec'y

5. 8. Mambert, Vice President & Financial Executive

•

sussect: Royal ties

Division in

Question: Export Division, T.A.E. Inc. and Sales Division E. S. B. Co. proper.

Er. Kellow and the writer had a short telk this P. A. regarding the subject of manuling the accounting in commenction with royalty on the books of moments. A. Edison, Personal and R. S. B. Co.

he Addison torses natively on his relations on the boose as account called "appare the" seam of distinct from the "Labort tory" account the mave credited to said appared year count and account on the country to some for reputies. In that recently, the It is represent our relationship of the country of the

We propose that both the Spream 1 and the Storage Battery Company will continue to carry a jeparate account for royalties on our respective cooks and not carries them with the other charges to and from Thomas A. Edison, Personal.

The Storage Entiery Co. will at the end of each month render to Thomas. Editor Robsoni. "Noyalty Account" a credit memo covering the amount of royal tee charges considered suring each month, with the exception that royal

There is a special agreement whereby kennet has made a deposit to Mr. Edison of \$\(\xi_{\chi} \),000.00 against which deposit one-half of the royalties on all calls shipped to him is to be charged.

our former procedure in this matter (when we were heading it through the knorth Mytison) and to bill the Export Liviation with the full amount of the royalty and credit Royalty Account on our general todger. the Ir. Lionnet paid sits eccount to the Export Liviation he made a deduction for one-half the encount of the royalty which was billed book to us by the Export Liviation; credited to them and charged to Royalty Account by E. S. s. Co. Ze now propose to headle the Donon troyalties in the following manuary:

(a) On our invoice to Kennet for cells we will charge the full amount of the royalty.

(b) Render a credit memo applying against the said charge for royalty for one-half the amount of the royalty "on account of denosit".

COTIES TO: HR. ETERHEN E. HAMESOT-GO

FINANCIAL MEMORANGUM No. 3506 DATE -11-25-16

errective Continuously

mos Secretary, Edison Storage Battery Co.

o- 8. s. Embert, Vice Fee't & Financial Executive

summer: Royal tions

Division in

11 12 12

Question: Export Division, F.A.E.Inc. and Sales Div. E.S.B.Co. proper.

- (c) Render a credit memo to T. A. E. Personal for the full amount of the royalty.
- (d) Render a charge to A. A. E. Personal for one-half of the royalty, deducted "on account of deposit".
- (e) We recommend that the total amount standing to the credit of Royal ty Account on E. C. S. Co's books be paid in each with the exemption of an arbitrary figure, may (300.00, to cover royalty not yet collected;
- (r) On the first of each month thereafter to pay to T. A. Editon such royalties as we have collected in the previous month as determined by the cash book, leaving any balance open on Royalty Account.
- Mr. Kellow will handle the cituation on the 2. i. Edison Personal books along the following lines:
- (a) Credit Lounot "Royalty Leposity account with the $\S 2b,000.00$ deposit.
- (b) Credit account Hoyalties Earned with all royalties, per credit memos of the Storage Eattery Company.
- (c) Open a separate account with Edison Storage Buttery Co. called "Edison Storage Bettery Company Boyal ty Account" and charge to this account the amount of all credit memos rendered by E. S. b. Co.
- (d) Credit E. S. B. Co. with amount of one-half of royalties billed as shown by their debit memorandums.
- (e) Charge Ennot Royalty Deposit account with one-half of royalties as shown by E. S. B. Co. bille.

ARTHUR MUDD, Scoretary

Edison Storage Battery Co.

Kesss. Chas. Edison-H.F.Hillor-R.W.Kellow-G.T.Owen-H.Eusk-H.E. denstead, Flynn-Coggins- Bremer-

A. I. CLYMER

idison Storage Battery Co.,

Orange, N. J. My dear Mr. Edison : wer furnings, and brad

aire secreeli December 11, 1916_

of use pearfree pull

I was much gratified to read, in a letter from a A plant to reall outs every you a few weeks ago, that the battery combany is doing finely, and fraud you a few weeks ago, that the battery combany is doing finely, and fraud am not surprised to learn that it is participating in the unprecedented try. Home ten m industrial prosperity of the country. me that the company was then earning enough to justify divisions were it not for the fact that you were saving up money to pay of: \$500,000 in bonds maturing in July 1016, and that after this year could without doubt pay good divi there reced this, after having maited patiently and hopefully for si "results," which I have felt every confidence non superior a product as the Edison ba Since, referred to, I have been encouraged to believe the dend may probably to expected Japy. Ist proximo.

Of course I should be such in the suc that the initial divisor of sell dure

d to knon, allow, of the with what particulars your time will allow 1 have been especially company has been getting in the past hopeful of our getting a large shore of the gubmanine battery business, from this and foreign countries, in view of the extroardinary plans

and immediate demands for sut-sea vessels.

May I ask along what lines our largest increase Also, what is our present capacity in orders is materializing ? and the number of cells at present manufactured per day, and the amount

Mr. Edison, #2

of our unfilled orders ? I feel confident you will not consider these questions impertinent as coming from a minor stockholder, but I am personally interested in the progress of the company, keep all information confidential and you have kindly informed me guite fully in the past.

awaiting your kind reply with much interest and with my best wishes, I remain

Very truly yours,

and Clymen

December 13,1916

Mr. A. I. Clymer,

Van Wort, Ohio.

Door Er. Clymor:

Replying to your favor of the lith instant, lot me say that we have secretly any war business with the Storage Battery. Our trouble is to compete with the lead battery.

to propose patting in a plant to roll our own stell down from thin band sint to the very thin size we use. We also contemplate a plant to make our own hard rubber. These will require a good part of our profits for next your that we will show the size of the

We have sold only three submarine batteries. We have to fight a hard combination which does things we cannot do.

Yours vory truly,

A/1588

Edison General File Series 1916. Birthday Greetings (E-16-10)

This folder contains letters congratulating Edison on the celebration of his sixty-ninth birthday. Among the items for 1916 is a letter from journalist John A. Sleicher reminiscing about Edison's demonstration of his tinfoil phonograph in January 1878 at the Western Union headquarters in New York. Also included are letters from longlime Edison associates Sidney B. Paine, manager of the Mill Power Dept. at General Electric's Boston office, and Frederick A. Scheffler.

Less than 5 percent of the documents have been selected. Most of the items not selected received no response from Edison. Some bear his marginalia, indicating the reply of a simple "thanks."



NEW YORK

JOHN A. SLEICHER

February 10/1916

Mr. Thomas A. Edison, West Orange, N.J.

My dear Mr. Edison:

Let me congratulate you on your birthday and wish you health and happiness for many years to come.

It is a long time ago that, while I was the agent of the New York Press Association in the Western Union Building, I was called downstairs with the other press managers to see you make your first exhibit of the wonlerful phonograph. I shall never forget the weird feeling I experienced when you talked and crowed and shouted into the little instrument and then reproduced your voice. Out of that production has come the finished product of your genius. Long may you live to enjoy the honors so worthily conferred upon you.



GENERAL ELECTRIC COMPANY

CHENECTARY, N.T.

84 STATE STREET, BOSTON, MASS. February 10, 1916.

Mr. Thomas A. Edison, Llewellyn Park, Orange, H. J.

My dear Mr. Edison:-

Will you kindly accept my hearty congratulations on your sixty-ninth birthday.

It does not seem possible that it will be thirty-five years next October since I formed connection with your Company. As I look back upon those earlier years and consider what has been accomplished by you, I think I can appreciate - possibly only to a limited extent - the tremendous debt which not only this country but the world at large owes Thomas A. Edison. You not only created an art but devised ways and means of turning that art into science, and the name which you have made for youreelf will never be forgotten so long as civilization endures.

I consider it the greatest honor of my life to have been associated with you in those early pioneer days and I have been very grateful that through all these years that connection has been maintained. You must feel gratified when you think of the achievements which you have accomplished - but to my mind there is a greater monument, which you have created, in the affections and esteem of those who have been associated with you. I sincerely truet that you may be favored with many more anniversariee and that your powere to think and achieve may remain Host sincerely yours, Sidney Maine unimpaired for years to come.

FREDERICK A. SCHEFFLER EIGHTY-FIVE LIBERTY ST. NEW YORK

MEMOER AM, BOG. OF MECHANICAL ENGINEERS. AM, INST. OF ELECTRICAL ENGINEERS.

· February 11, 1916.

Mr. Thomas A. Edison,

Orange, N.J.

Dear Mr.Edison:

Will you please accept hearty congratulations from Mrs.Schoffler and myself on your 69th birthday?

It is almost thirty five years (May 30,1881; it is wonderful how T.A.E. associates can remember dates), since I had the pleasure of taking up some work for you at #65 Fifth Avenue. Even at that time the "boys" used to speak of you as "the old man"; and there was just as much sense in their doing so at that time, as there is now.

Long live Edison!

Sincerely yours, Published Schiff-lan

FAS-L

Edison General File Series 1916, Book and Journal Orders (E-16-11)

This folder contains correspondence and other documents relating to books sent to Edison or ordered by him. Among the items for 1916 is a letter from Brentand's regarding the renewal of Edison's subscription to various periodicals sent to daughter Marion Edison Oeser in Germany, along with Edison's comment that he would "like to know if these periodicals ever reach her address. I myself cannot even receive letters." There is also a carbon copy of a letter from Edison to sanitation engineer George A. Johnson thanking him for his book, The Typhoid Toll, and remarking that "two of my children have had typhoid." Other correspondents include William G. Frost, president of Berea College, who presented Edison with a copy of Horace Kephart's Our Southern Highlanders; and Charles E. Speiss of D. Van Nostrand & Co.

Approximately 20 percent of the documents have been selected. The material not selected consists primarily of routine orders, letters of transmittal, and unsolicited correspondence. HOLT WELLES COMPANY, INC
Browne Carburetors
DISC SECRETARY AT SO THEET
HEW VOICE

-

Mr. Thomas A. Edison,
Weet Orange,
New Joresy.

My dear Mr. Edison,

We are sending you herswith autographed copy of Mr. Browne's "A Handbook of Carburetion", just off the press of John Wiley & Sons, Inc.

Critics who passed upon the original manuscript consider this mork to be the most complete and comprehensive treatment of the subject to date.

Engineers recognize the importance and necessity of a standard of carburetion. We believe that in compiling and distributing this work, Mr. Browne and this Company have contributed much to that end.

Very sincerely,

Denotdent

EHS/JL

HEARST'S INTERNATIONAL LIBRARY CO. 110 WEST 40TU STREET NEW YORK

Fab. 24, 1916.

Net now Mr. Meadoworoft c/o Thomas A. Edison Co Wast Orange, N.J.

Dear Mr. Meadowcroft:

One of our men, who left suddenly for the west last week, told me as he was leaving that he had called on you to see if Mr. Elison would be interested in presenting a/large number of copies of Haden Maxim's "Defenseless America" to his employees. Mr. Maxim has waived his royalty interest in order to allow wide distribution of the book in the cause of preparedness.

Our Mr. Leussler gave me the impression that you thought Mr. Edison might be interested in doing this, and that he quoted you a price of \$250. a thousand at which we are salling many thousands.

Now, in talking with Mr. Maxim this morning, I told him the facts, and knowing his friendship for Mr. Elizon acked him if he Mr. Maxim, wheak us to make Mr. Edizon the sense cost price that we give the author on copies that he gives easy of this edition, vir. \$175. per copies that he gives away of this edition, vir. \$175. per thousand (or in boxes \$185. per thousand.) Mr. Maxim said that by all means he wanted Mr. Edison to have the lowest coat.

I have sent you a complimentary copy of the book which has been more widely praised than any other book on the subject. Will you please let us hear from you if Mr. Edison is interested?

Very truly yours,

Cheminas

Feb. 28th. 1916.

D. Van Hostrand Company, 25 Fark Place, liew York City. <u>Attention of the C. E. Spoirs</u>.

Lear Mr. Speirs:

.. few days ugo you sent me four or five books on approval, with a bill. I have mislaid the bill, and rould be glad if you will kindly sond me . a duplicato.

Hr. Edison wants you to send the follow-

ing:

"Text Book of Organic Chemistry" Bernthsen-Sudborough

"Electro Chemistry of Organic Compounds" Lob-Lorenz.

Published by John Wiley.

Will you kindly send those to me and oblige, Yours vory truly,

Assistant to Mr. Edison.

Order from You Noshand Text 1000th of Organic Chemisty, Chern thisen - Sudborough

Ecopo Chamistry of Organic Componed. Lob - Korcus John Wiley

TELEPHONE CAL

CABLE ADDRESS: BOWLINE," NEW YORK.

DUM NESTERNA COMPANY PRESIDENCE AND SOCKSELLERS.

25 PARK PLACE

P.O.BOX 1741. NEW YORK Harch 17th, 1916.

Mr. Wm. H. Headowcraft, Laboratory of Thos. A. Edison, Orange, H.J.

Deer Sir:

With reference to your order of January 26th, we are sending Parts J. and II. of Dyson's "A Manual of Chemical Plant", which is all that has so far been published.

This is to be a subscription work consisting of twelve parts, and in accordance with the publisher's arrangements we are returning our bill for the price of the entire book, and which is to consist of twelve parts.

Part III. will be published some time this month, and subsequent parts will follow at intervals of about a month.

Yours truly,

D. VAN HOSTRAND COMPANY.

CH MB.

Mr Edward OK bill

The Associated Chambers of Commerce of the Pacific Const OFFICE OF THE SECRETARY

SAN PRANCISCO CALIFORNIA 276 Post Stroet

THE FORTLAND CHANGES OF CONHERCE

BAN FRANCISCO CHAMBER OF CO

Mr. Thos. A. Edison, Llewellyn Park, West Orange, E. J.

Dear Sir:-

With our compliments we are sending to you under separate cover, for your perusal and files, copy of "History of Tour of "inited States by the Honorary Commercial Commissioners of China", which we trust will be of interest.

Several hundred copies of the booklet have been forwarded to the Chinese Commissioners.

yours very truly,

773-B.

So be surrender.

June 26th. 1916.

D. Von Hostrend Company, 25 Perk Place, How York City.

attention of Mr. Speirs.

Doer Mr. Speirs:

After coking you to cond to ir. Edison a copy of Schuls & Julius "organic Coloring inttor", I diclike very much to be obliged to return it; for when I cheed it to him, he said that a mistake had been made, as he already has a copy of this book in his library at home, having purchased it from you town little time ugo.

I am, therefore, return the book to you by real, and anot offer an apology for haring unduly troubled you.

Yours very truly,

Assistant to Mr. Edison.

Enclosare.

Manufacture Condition

Control OPGANIZATION

And Investigation

ROGER W. BABSON, PRES.

ASSETCES HOLY TO WILLESLEY HILLS, MASS.

Mr Thos Edison Thomas Edison 79-5th Ave New York N Y

Dear Sir

Of my for

We have just issued an "Industrial Map of "exico" showing the leading products of this country and where (on the map) they come from.

Commodity prices in the United States will be afforded by serious Moximum trouble account of the Commodity prices and the Commodity of the Com

Very truly yours

PFBryant

hits righ altained from associat believed to be accounte, one reports and opinions are not guaranteed. Marener they are given in strict completing for the use of authorities only.

Callell Will borner MELLINIET Columbian Columbian Front Berca Co the Book "Own Southern Highla Jerichich from very much abliged and also interiorad (10 9 have been over the Smoky & Blue Ridge Mountains prospecting for Bereal, Ky. 5

Popular Science Monthly 1-14 907 239 DOUBLE WASTE, NEW YORK

Mr. Thomas A. Edison, Lakeside Ave., West Orange, N. J.

Dear Mr. Edison:-

In a day or so you will receive five pounds of precious paper in book form containing 960 pages, 1393 arti-cles and 2113 illustrations. This book was originally published in installments of 160 pages a month and it was purchased by over 150,000 peo-ple who are more interested in facts than fiction.

That this publication contains more authoritative information, more articles and more illustrations than any other monthly magazine in the world, is not the MOST significant estimate of its value to you.

Cordially yours,

on your table back of derfrom Liblary.



THE UNPOPULAR REVIEW

HENRY HOLT AND COMPANY, Publishers

Dear Sir:

Meccascraft October 14, 1916
October 16, 1916

Knowing you to be specially interested in the relations of capital ar

labor, we take the liberty of sending you the enclosed prospectus of a quarterly review started primarily for the discussion of those questions.

Should you care to see a specimen copy with a view to becoming a subscriber, we will be happy to send you one.

Yours respectfully

HENRY HOLT AND COMPANY



BRENTANO'S FIFTH AVENUE & 2715 STREET NEW YORK CITY Oct. 27th, 1916.

Edison	Laboratory,
Orango,	
N. J.	

Gentlemen:

We beg to call your attention to the fact that your subscrip-tions to various periodicals to which you subscribe through us, expire as Indicated below:

OENTURY MUNSEY HARPERS WESKLY

1. 100 1 100 1

Sent to Era. Earle E. Oeser, Bodenheimer Str. 4, Mulhauser Elsass, Cormany.

new for mather speak— Tukombleke to know of these periodical, loss sicher hed and there In yorky comment

Hoping to be favored with your order for the renewal of the remain, we remain,

Very truly yours, TC/JB. F-106. SUBSCRIPTION DEPT.

P. S. If you have already ordered the renewal, please diaregard this notice.

We take pleasure in referring you to the Moreular number of THE ENGINEERING MACAZINE

THE EDITORS.

THE EDITORS.

To Mr. Thomas a. Edison

East Orange

(1120) Mew Jersey



3:19

Hevember 11,1916

Mr. Chas. E. Spairs, c/o D. Van Hostrand Company, 21 Park Place, New York, H.Y.

My door Mr. Spoirs:

Mr. Mison wente particularly to obtain the following book, namely "cabollaria Ubersicht Der Ametichen Farbetoffe" by 6. Schultz and P. Julius. He vante to obtain one copy in the Corman and one English trunslation.

Ho does not care whether they are new or second-head, but he would like to got it as quickly as possible. Will you kindly use your best efforts to get these for him promptly, and send them to me.

Yours very truly,

Assistant to Er. Edison.

[ATTACHMENT/ENCLOSURE]

Tabellaris Übersicht Der
Kunstlichen Farlistoffe
ву
G. Schulb and P. Inlins
1 German 1 English Franklation
1 diffich Franciscon
:

Deferred Nov. 14/16

Retained following books from D. Van nortrand Co.

Telepaphic Transmission of Photographs - Daker Photographic Optics + Can Photography - Johnson Wireless Jelegraphy Flourier Radio Jelegraphy meldola Chewistry of Photography Coil Haller + C. Green Organic Coloring Matters messner Radiodynamics Baugay Wireless Telegraphy ollfree Hinto for Wireless Designs Shappand & Mass Theory of Photographic Process Restruction in Photography Wireless Telegraphy Photography for Sudents of Physics Derr Morgan Worless Telegraph Construction Ologo bysical Chemistry Ramsay

Wireless Jelegraphy

Price

Staules

Hovember 27, 1916

Hr. George A. Johnson, 150 Hassau Stroot, Hew York, H.Y.

Donr Mr. Johnson:

Allow no to extend my thanks to you for your kindness in sending me the book on Typhoid. I am glad to have it, and shall be interested in reading it, as two of my children have had typhoid.

Yours vory truly,

[ATTACHMENT/ENCLOSURE]

Taphan 2010 Mahmum The with him for the sook 130 Moneyor L. Gelmann 00 Logarding Caphing Comon man smith test and I possell to the man smith test and I possell to the

Dec. 4, 1916.

Mr. Brady:

Purchasing Department for two books on acoustics which were sont in to Mr. Edison by the D. Van Rostrand Co., New York.

. These books were ordered by mail by Mr. Hutchison, for Mr. Edison.

I have not the names of the books at hand, but Er. Savage of the Purchasing Department can give them to you quite readily.

а. в. изэрэфия

47+5

December 8, 1916.

Er. Ches. B. Speirs, c/o D. Van Hostrand Company, 21 Perk Place, How York, N.Y.

My doar Mr. Speirs:

ir. Edicon is auxious to cocure come books and periodicals on Wood-Pulp. Will you kindly take care of ir. Edicon's recuest, conding sems to me so I may be able to hand them to him personally.

Thanking you for your prompt attention in advance, and with kind regard. I remain. Very truly yours.

Applicant to Mr. Edison

Written for Mr. Smith - Chem. Rtom,

Books received from D. Van Hostrand & Co., Honday A. h., December 11th, on

WOOD PULP and PAPER, Link Inc :

Wood Pulp and Its Uses --- C.F.Cross, E. J. Bevan and 't R. L. Sindall. (Westminster Series)

The Hamufacture of FAPER -- R. U. Sindall, E. C. Shift by South

PAPER Haling ---c. F. Gross and E. J. Bevan. (Spon & Chemberlain, publicher)

TESTING OF WOOD PULP -- Sindall & Bacon. /

PAPER TECHNOLOGY, on Elementary Limital on the Manufacture, Physical Qualities and Chemical Constituents of Paper and Paper-Making Fibres by R.W.SIIDALL, F. C. S.

PAPER TRADE JOURNAL--October 19,1916. October 26,1916.

rin 1101			
EMORANDUM TO		Etrision Organizati	DATE DOG. 16, 1916a
JBJECT		-	
Mr. P. Brady:-			
We have	ordered at Mr. Edison's	moreout and house our	
		- /	
therefor one copy	of "History of the Penam	s-Pacific Internation	
therefor one copy		s-Pacific Internation	
therefor one copy	of "History of the Penam	s-Pacific Internation	
therefor one copy	of "History of the Penam	s-Pacific Internation	
therefor one copy	of "History of the Penam	e_Pagific Internation	al Exponition",
therefor one copy	of "History of the Penam	s-Pacific Internation	al Exponition",
therefor one copy	of "History of the Penam	e_Pagific Internation	al Expanition",
therefor one copy	of "History of the Penam	n-Pacific Internation isition to cover.	al Expanition",
therefor one copy	of "History of the Penam	n-Pacific Internation isition to cover.	al Expanition",

Weakocraft. this book to my address at It Myans Ha

NEW BOOKS

Principles of General Physiology. By William Maddack Baylis. $z_5 \times t\bar{s}$ on: $p\bar{p}$, $x + \bar{s}\bar{g}$ 0. New York Longman, Green, and Co., 1915. Price 16.00.—11 the perfore the outher soys. p is: "Will offer the outher dependence being essentially dynamic, the study of physiology consists in the investigation of changes. As lynamic, the study of physiology consists in the investigation of elongy cumings says, "It is of the very greatest importance for the understand the behavior of organisms, to look upon them chiefly as something dwa-sh processes rather chose as structure." The velocity of receions and the littons offering it, together with the energy choogses involved, ure, the more essential than the elemical structure or physical properties of the re-turnment of the control of the properties of the resubstances or the resulting products, olthough the knowledge of certain of these substances or the resulting products, officing the knowledge of certain of these properties is, of course, necessary. To use on illustration, inodequate on that is of a petrol motor, the problem of the physiologist is malogous to that excitation of the amount of fine (consumed in relation to the work if we engine is working under various condition. The pre-

cal and physical properties of the mater

Edison General File Series 1916. Business Propositions [not selected] (E-16-12)

This folder contains unsolicited correspondence asking for Edison's support or endorsement of a business venture, invention, or idea.

Edison General File Series 1916. Cement (E-16-13)

This folder contains correspondence relating to the technical and commercial development of Portland cernent. Arrong the documents for 1916 are letters from consulting engineer Edward Smuliski and Edison employee Charles A. Nicolai concerning plans to test cement at the West Orange laboratory and other locations in New Jersey.

Two of the five documents have been selected. The material not selected consists of letters of transmittal and unsolicited correspondence.

FOWARD SMULSKI about their test Meacheant = Coult Mechina

S-M-I FLAT SLABS

S-M-I ENGINEERING CO.

CONSULTING ENGINEERS 13-21 PARK ROW

NEW YORK. September 30, 1916.

Mr. Thomas Edison, West Orange, New Jersey.

Dear Sir:-

Several days ago Mr. Doe, or the American Concrete Steel Company, took up with you the question of permission to erect the concrete test slab which we / are contemplating on your ground.

We were informed that you were kind enough to grant the permission. Upon inspection or the ground, however, we find that it would not be feasible without serious interference with your business to carry on the test at your plant, as the test would require at least 350 tons of loading material.

In this connection Mr. Doe mentioned the possibility of using Edison coment. We are perfectly willing to use that coment, provided it is thoroughly tested.

Will you please let us know with whom the question of the cement should be taken up. We are anxious to start the ouilding of the slab at the earliest possible date, so as to oe able to conclude the test before the cold weather.

The amount of necessary cement we estimate at about eighty carrels. We contemplate pouring the footings ruesiay or Wednesday or next week. The slao proper will Oe built Toursday or Friday.

The place selected for the test is in Bloomfield, New Jersey.

Thanking you in advance for your kindness, I am

Yours very truly.

Edward Smulski

P.S. The text shet will be 32 gt popular supported by nine columns. It will be of the flat shet type periforced by The 5-10-7 dystem of remforcement.

Octobe

October 5, 1916.

Mr. Meadowcroft:

Re. attached from S. M. I. Co.

About a week ago the Engineers of the Concrete Steel Company asked me for the use of ground space in the rear of building #12 to make a test which I understood was in connection with New Building 21 operations. I Pointed out a space which we could spare to the property of the country of the country of the country of the companication that the test had nothing to do with building #21 but was to be a test of Edison Comment and that they have arranged to conduct the test elsewhere. The letter would also indicate that they want Mr. Edison to furnish the comment encessary to make this test.

C Nicolai

Construction & Maintenance Service Division.

Mr. nicolai suys it looks like an abuching scheme, for tain reinforcing to for Edwin cement.

Edison General File Series 1916. Cement House (E-16-14)

This folder contains correspondence and other documents relating to the widely publicized development of Edison's poured concrete house. The correspondents for 1916 include housing developer Frank D. Lambie.

Approximately 10 percent of the documents have been selected. The unselected material consists primarily of unsolicited letters for information about the house, which received a perfunctory response or no reply from Edison.

LAMBIE CONCRETE HOUSE CORPORATION 61 BROADWAY

F. D. LAMBIE.

NEW YORK

TELEPHONE: RECTOR 5304

Mr. Thes. A. Edison,

Orange, N.J.

Dear Mr. Edison:-

You will be glod to learn that I have ut last

Yound "The Thousandth Man" as Kipling speaks about in one of his seems. The old and well known Boston Bankors, Tucker Anthony & Company have taken up and financed my steel forms and no are now busy getting started.

We have a choice selection of underwriters of the stock. One of your old friends, Mr. Fred Fish of Fish, Richardson Horrick & Houve, who examined the patents, being one of them.

The new Company owns all the Coreign wights as well as U.S.A. and we shall take contracts to build concrete houses, besides lossing the forms. This we feel will holp us to keep the lease and straight, never to allow the forms to get into the hunds of incompetents.

Your prophesy has come true that if I stuck to it and perfected the "one story to one cast" basic principle that sooner or later the right people, the congenial people, the honest as well, would be only too glad to come in with the necessary copital.

All I can do now is to thank you for past help you have given me. Your big reward no doubt is the knowThom. A. Edison -2- Journary 19,1916

ledge of the fact that we are going to place concrete houses on the map.

Yours very respectfully.

Your respectfully.

You Proceed at

FEL/RW

BASIC PATENTS ALL OVER THE WORLD

LAMBIE STEEL FORM CO

CONCRETE HOUSES AND BUILDINGS CAST COMPLETE ONE STORY-ONE CAST

Miladollers;

No. 299xBROADWAY 61 New York, U.S.A.

LONDON OFFICES
151a, 153a EUSTON ROAD, N.

6685

"JELANCO" NEW YOU LONDOR

Dearm Miller Jan Could set Mr. Edwar Sometime to take the

time faccowar ing last letter to him one or two lines, I would prige. Such a letter very much

We are soing slow but very Strong as Ne 80 - Han Dluty mouly

ant paid in now as need

risual give hearth

Frank O Lambie

Cuble Shilless "Edisons New York Trom,theLaboratory Thomas A. Edison, Orange, N.J. Jen. 24th. 1916. Mr. Frank D. Lambie, Lembie Steel Form Co., 61 Broadway, New York City Dear Mr. Lambie: bir. Hiller has handed me your favor of the 20th instant. is in the midst of one of his strenuous campaigns, and I am sorry that we shall be unable for the present to get a letter for you. It will be several weeks at least before we can get his attention to anything but the most urgent matters, but I will try to get your letter at some future time. Yours very truly, one saying he is glad to is cell I'm like in and to my letter of 20 4 for I wish horrown that my letter ? rakly would not be Sernal make about - as my children

Inhearit there letters from molding Me are living up fine big Contrading Supt Have for Sexual Amedica thousand Real Y it Seems big Relief Dome thing burden liftedwhose may in your

Medicalins Edison Sifferd Trom the Laboratory

Thomas A. Edison;

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Lambie:

Allow me to express my appreciation of sympathy in regard to the recent fire at my plant, and to thank you for your good wishes.

I am glad to say that my concrete buildings were not much hurt, and they can be repaired. We are hard at work now.

From what I hear, you are doing well with your system of Steel Forms for casting concrete houses commercially.

I hope you will cast the entire house at once before you get through.

Glad to note that you are so well pleased in taking my salvice to go into this business. The future holds much for the poured concrete house.

Yours very truly,
Mos A Edwan

C. H. OLNSTED, PASSOCHI TELEPHONE A. H. OLMSTEO, SECT & TREAS.

OFFICE COMSTOCK BLOCK

Olmsted & Olmsted

GENERAL

CONTRACTORS

EAST HARTPORD, CONK., JANUARY 77H, 1915.

Mr. Frank D. Lambie, 299 Brondway,

New York, N. Y.

Dear Mr. Lambie:

Your letter asking how Mr. Dunham is pleased with the result of the first season's work is received.

As you know, Mr. Dunham bought your form at the suggestion of his friend, Mr. Thos. A. Edison, and I think that Mr. Dunham has never had any idea but that they would be completely suecessful, as he has every confidence in Mr. Edison's judgment.

Ar. Dumham at present is in Cuba, so I will reply to your letter, and it gives me great pleasure to say that as Mr. Dumham's superintendent I have erected ten separate structures with the forms in the mouths of June to November, inclusive, ranging from a circular silo to nine room houses, and that with each operation I have become more and more enthesisative about them.

We at first feared that they might not fulfill all requirements, but as we learned to handle the forms, we came to the conclusion that we ma build any sort of a concrete structure with them, while the costs obtained were less than we even hoped for. In this connection it may interest you to know that the last house erected, which is 25° x 25°, containing severs rooms and lath with provision for findshing two large rooms in attie, scalar under earlier house, was until complete for \$2,073.00, in the content of th

I cannot close without thanking you for the direct personal interest which you and your engineers have taken in our work, and I feel sure that your efforts will meet with the success which they morit.

Yours very truly,

ARTHUR H. OLMSTED.

LAMBIE CONCRETE HOUSE CORPORATION

61 BROADWAY

VICE-PRESIDENT

NEW YORK

TELEPHONE: REGTOR 5304

January 26,1916

Mr. W.H. Meadoworoft,

Laboratory of Thomas A. Edison,

Orange, N.J.

My dear Mr. Meadowcroft:-

rours of January 24th at hand. I thought it would be a good thing to have Mr. Edison enswer the last letter, so that 1 could keep same for future reference, insamuch as the last one that he wrote me is framed and hangs in my beforem to furnish me with new inspirations every morning. I sat that 1500 good, Soving I gumm outlied we are fooding slong in fine shape and 1 am

sure that Mr. Edicon would take a certain pride if he knew what we were accomplishing, which he will know something about a little later.

Yours sincerely.

Thould Lambie

3DL/RW

LAMBIE CONCRETE HOUSE CORPORATION 61 BROADWAY

F. D. LAMBIE.

NEW YORK TELEPHONE: RECTOR 5304

February 15, 1916

Mr. W.H. Meadoweroft,

Laboratory of Thos. A.Edison, Orange, N.J.

Dear Mr. Meadowcroft:-

Your letter of the 10th inst. received, also the good letter that Mr. Edison wrote. I thank you both very much for them.

You are right in allowing such an article on Mr. Edison to die, but as I had never read anything in

He releva to Was celite in ni the 5

likus

my life regards Mr. Edison like this before I simply got "boiling hot" with indignation and if the author had come into my office that day he would have got physically licked as Mr. R.W. Watson, the financier and President of our Company who handed me the article zould have assisted me.

Wishing Mr. Edison and yourself every bless-

ing this New Year, I am

CAMBRIA STEEL COMPANY

F. H. MOYER

ENGINEERING DEPARTMENT

JOHNSTOWN, PA. July 18, 1916.

Day It only tried the Experiments best did not go into the wintles Commissed other have done so after a fashion one

Mr. Thomas A. Edison, East Orange, N. J.

Dear Sir:-

We are planning to build a number of houses for our working men and are interested in receiving information regarding costs and the method of constructing the Edison Poured Concrete Houses. These houses are to be of four or five room class either with or without bath. Any information you may send us will be gratefully received.

FHM/G.

from them Lambics Co

CAMBRIA STEEL COMPANY

, H. MOYER

ENGINEERING DEPARTMENT

JOHNSTOWN, PA. July 25, 1916.

Mr. Thomas A. Edison,

Orange, N. J.

Dear Sir:-

We acknowledge receipt of your letter of the 22nd regarding concrete houses. We note that you have not gene into this matter commercially, but that we can get information from the Lambie Concrete House Corporation, #60 Broadway, New York.

Very truly yours

Thanking you for this information, we are,

Upt. Mo

FHM/G.

A. T. CLARK Say I ledet presend with Edison Portland Coment Co the plan myself as alters took the mostler up- one Co, Gentleman I read in the peoples some of country of Coment Annex built of Country party. ance in a row of have got as the class of tenents that wo on was cannot afferd to people and cannot afferd to that are Careless they are of a class if people Romas Kenpers, now theres houses within from to air norma now in building an the houses by and confrict using Coment Could and her or of the line any house any a could and the Canges that I could look at hand forme or patterns fronted god as grane or parties and g as a former of period that mould pook me as a formation for any period me and grantly approvated gun half mile he greatly approvated information I Can assure gone thuly

Wr. W. H. Meadowcroft, Coard Leave that I have been the instrument in the physical carrying out of at least a portion of the idea that sprung up in the great

mind of Mr. Edison (Concrete Houses).

While my system one complete story at one cast,
was not exactly Mr. Edison's original thought, it has proven
successful and absolutely, camproinly and such concorns as the
American Steel & Wire Company, General Fireproofing Co., Loyal Henno Coel & Coke, Oreseent Fortland Cement Compray and
others for whom we have built concrete houses this year, are
high in their commendations of building undor their method,
as well as the houses themselves.

There are no industrial houses built on the face of the earth that approach the big bunch of houses I saw last Friday at Donors, Fa. built by us for the American Steel & Wire Company, in bruty as well as strength, and it seems that every large industrial concern wants this class of house. Our concern knows where it could build 25,000 concrete houses in U.S. the next year if we could take them.

The Bankers who finenced my proposition this year, after organizing and getting ready, which took about six months, started to build in July, have made such a showing that they are

going to finance the Company much larger , and 1917 holds great pro-

In the January house building number of Concrete Cement Age, will appear with photographs, an article from a technical standpoint, on one of the large contracts taken. The Saturday Svening Post will write a story in the near future concerning our work. I will mail you both of these megazines. We have not spent a dollar in advertising and have suppressed all publicity the past year, simply proving out our system commercially in a large way so that the Enkers may know what they really got; now they are satisfied and are going ahead strong.

During the last year I have given almost all my thought to pouring the entire.house.st.one.gast, and have mede many experiments end find it practical and commercial, with a cheep set of forme costing not over \$2500. for a house 25 feet square, two stories and basement.

I can only get the cost of these molds down by using steel at the mein points of the house and fill in with 3 in. plank, making these planks subservient to the steel members, it all being so simple that it is perfectly wonderful, to my mind.

I have a model at my office and am going to form another Company to take care of all the smaller houses that are being offered such as my friend Durant of General Motors Company, wants thousands of these houses at Flint, Michigan, Bridgeport Housing Company wants \$1,000,000. worth at Bridgeport, Comn., and I can name downs of concerns same way.

Mr. Ingersoll is ready to join me in this "whole house at one cast", as he has been over same thoroughly with me for many

}_

months, and before I launch another Company, thought I would drop you a line to see if we could not possibly get Mr. Zdison(s consent to lend his name or become a director or samething, in this organization which Ingersoll and I will form early in the New Year on about the same basis as the old reputable Banking House of Tucker Anthony & Company, Bonton, formed the "One Story One Cast" proposition this year, namely:-

\$1,500,000. Capital

1100 Common Shares par \$100.

issuing the \$400,000. preferred for capital, giving the same amount common as benus, leaving \$700,000. for the promoters, which in this case would be Ingersoll and myself, and if we could enlist Mr. Edison's sympathy, after he had made proper investigations which I could furnish without any wear or tear on his part, we would want to allot him \$100,000. woth of common stock and all we would ask for it would be to seek his advice occasione Ly, and we are confident that bosides doing good work in the world we will make all of this common stock worth par and very much more.

Mr. Ingersoll has the best organizing and standardizing mind for this kind of work of any man I have ever met. He does not take hold of anything unless he makes a success of it. He is one man in a million and he and I are of perfect accord, great friends and we are both sure of success attending such efforts and the hard work we would put forth. (We would standardize the house some as he has his watch business).

At some opportune time I wish you would please do me the

great big favor to briefly approach Mr. Edison on the subject "take soundines" and if you thought he was the least bit impressed, I would come over with a model and lay the matter before him briefly, so he would I think "get the feeling".

No hurry about this, any time within the next half month. If you know in advance that he would not touch it with a 10 foot pole why of course it will be useless but the matter is so thoroughly next to my heart, and I see such visions that I thought it would do no harm to extend to him at this time the invitation, as he is the father of the entire movement and he is as glad as I am that the concrete house has come to stay. The Assocation of Portland Coment Manufacturers of United States, who met in New York last week, decided to launch a big campaign in 1917 for the Concrete House. This Association is with us.

If Mr. Edison does not exactly approve of the financial outline as above Mr. Ingersoll and I would change it. Mr. Ingersoll will buy some of the preferred stock himself on same basis as investors who will all be our friends.

Yours very truly,

Hh Lambie

MR Edison wrate me in 1914 that he hoped I world cast whale Home at once before I go through -now here it is til right

F. D. LAMBIE 61 BROADWAY NEW YORK

RECTOR BD18

December 30, 1916

Mr. W.H. Meadowcroft, Laboratory of Thomas A.Zdison, Orange, New Jersey.

Dear Mr. Meadowcroft:-

compot to say that the patents that have been allowed this year upon my new system of pouring concrete houses, ONE COMPLETS HOUSE at one cast, are far superior and more besic in the opinion of my patent attorneys than were the patents on the one story one cast proposition, which Mr. Fred. Fish of the firm of Fish, Richardson, Herrick & Neeve, Boston, passed upon as being Al, for the Banker.

Yours very trul

Maulie

December 30,1916.

:: FLESOHAL ::

Hr. F. D. Lumbid, 61 Broadway, How York, H.Y.

Door !r. Lumbic:

I have received your favor of the 29th instant, and an just writing this line to soknowledge it.

In. Edicon's uniform reliev is against becoming interested in outside enterprise., and I usually answer letters to this offect. However, as your is so different, I am going to show him your letter in a few days and will let you know what he says.

with the best of good wither to you for the coming year, I remain,

Yours very truly,

aniatant to Lr. Edison.

A/1756.

Edison General File Series 1916. Charities and Loans (E-16-15)

This folder contains correspondence and other documents concerning Edison's charitable contributions, financial assistance, and donations of equipment. Among the documents for 1916 are solicitations for war relief efforts, including the Allied Bazaar for the relief of France and Belgium and the Bazaar for the Relief of Widows and Orphans of German and Austro-Hungarian Soldiers. The correspondents include electrical executive Charles A. Coffin, Marshall C. Lefferts of the Celluloid Co., and Richard C. Maclaurin, president of the Massachusetts institute of Technology.

Less than 10 percent of the documents have been selected. The unselected documents received no substantive response from Edison. Many hear the notation. "no ans."



zice

J. D. DAVIS 450MESICEROSCOCEX NEW YORK

Wadsworth Hall. Arrochar, S.I. Jan. 17th. 1916.

Dear Mr.Edison:

You will recall that about a year ago I introduced you to Herbert Lewis and S. Takaki of Mitsui & Co. with whom you you to nerver Lewis and Strakes of missic co. With whom you entered into contracts for Toluch. At the time I left the matter of my remuneration open at the suggestion of Mr.Meadoworoft and now being in dire straits I called upon you today to see if you would assist me out of my troubles.

I have had no money from Lewis and but a small sum from Mitsui.

I have become involved in unfortunate litigation and stand an excellent chance of going to Ludlow Street jail for contempt of court unless I can raise Six Hundrade Dollars on Tuesday and I appeal to you to assist me to this end. I am not intentionally in contempt for I was out of the city at the time and

wired for an adjournment which was not granted me.

I was at the Laboratory today to see you in person
and laid all the matter in detail before in Meadowcroft as you were
not to be disturbed. If you will ask him he will tell you the details should you desire to know them.

I am sending this to your home by special delivery at his suggestion and I shall call at the Laboratory tomorrow morning for my answer which I know will be favorable if you will but realize my position. It is either the money or Ludlow Street for me. one mon one for your, on I on, for your, on I on, A, With best wishes for your continued good health and with expressions of esteem I am,

me Edward Selment of the Miller

DR. H. SCHWEITZER

Franklin 313

NEW YORK. February 6 1976

Mr. W. H. Meadoworoft,

Thomas A. Edison Co., Inc.,

Silver Lake, N.J.

My dear Mr. Meadoworoft:

My wife is interested in a bazar for the fit of the war orphans and widowe, and I have promised to help her to collect a sum with which to begin her work. I have therefore written to all my friends with whom I am associated in some way, and take the liberty to eolicit through you a small contribution in money from Mr. Edison ---- I have hardly the temerity to ask if he would be willing to donate a phonograph to be raffled at the bazar. Piance and automobiles have already been received, but so far no talking machinee hav been contributed. The German Chemiete' Society will have a booth at the Bazar, where contributions will be on eale. In view of the very large attendance anticipated the exhibition of these will be advantageous, and beeides Mr. Edison will be assisting a worthy cause -- the alleviation of suffering humanity.

Tructing that I may hear from you favorably and thanking you in advance for your kind cooperation, I am,

Signer

Huge Schweifer

[ATTACHMENT/ENCLOSURE]

SUBSCRIPTION LIST.

The undersigned agrees to pay to the Bazaar-collection of Mrs. H. Schweitzer, for the benefit of the widows and orphans of the war, the sum named below:

Name .	Address.	Amount.
A pro-Schweitzer American,		\$200.00
A pro-German Schweitzer,		5.00
William Strathman,	2906 Broadway,	25.00
George Geil,	2906 Broadway,	1.00
Grant Burns,		1.00
William G. Burns,		10.00
Luigi Bozzo,		1.00
A pro-Ally,		1.00
From the trenches,		1.00
Hugo Lieber,		5.00
Franz Fohr,		5.00
Schafer Brothers,		5.00
A friend of the Schweitzers,		50.00
William W. Croxton,		5.00
George E. Cruss,		5.00
J. Edgar Bull,		25.00
Charles S. Jones,		5.00
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7012

Orange, New Jersey, February twelfth, Einsteen bunded and cirtuen,

/r. Thomas Edison, Lest Grange, N. J. Ty dear Tr. Tdison: Day I countrying to go to floredo

by dear tr. Taison:
We are writing 15 that it you will be ver guest at a small direct to be given at the Easen County County Club,
Priday evening, March third, Minescen badered and sixteen, at
eight o'clock.

The object of the dimer is to gather together a number of our friends who is known and deeply in created in the welfare of the Oranges to discuss a proposed plan for the construction and endowment of a new bespital building for the New Jersey Orthogodaic Hospital and Dispensary to mee' the requirements that are becoming more argent, insistent and pressing every year.

During the past few menths we have been struck with the wonderful work already organized in Europe to repair the ravages of war. Not only are arms and legs being substituted for those shot away, been and mutilated, but opically equipped schools have been entablished to train those orippled on the field of battle for trades and professions in which the skill of the surgeon makes it possible for them both to support their families and serve the State. If this can be done in Europe under the stress and strain of arm, surely it is a sad commentary on our social organization that in time of peace and plenty, seventy five little oripples during the past few menths should have been turned away from the doors of our houghtal and made to carry through life.

unless otherwise relieved the burden of deformity.

In the hope that we may be able to prevent this suffering and waste of energy and most the ever enerosating demands for treatment, plans and estimates have been propered for a hospital to be built at the cost of Ewe hundred thousand dollars on property already purchased. To raise this event it will be necessary to secure the co-operation of the non to whem the people lock for leadership and guidence in undertakings of this kind, net only because of their individual generosity, but because of their business experience and judgment. Wer this reason we wish to lay our project before you and mose of your friends. Eurthermore, we want an opportunity of explaining the work that is now being done, to give the reasons for our refunal to join forces with the Hemorial Hospital in Hinsteen hundred and twolvs, and to report the rotults of an investigation into the actual needs of Orthousedie work in the community.

We know if we can prove to you the need of this hespital and show that it can be placed on a sound financial basis, the money will be raised. We also know that if we feel to establish our case and that after hearing the facts you are still of the opinion that the new hospital will simply be another burden upon an alreadyovertaxed community, the money cannot be raised. We want to try out this issue.

We subscriptions will be solicited, or will your presence entail any obligation whatever in the future. We do hope you will some and give us a chance to present our cause.

Kindly reply to Everett Golby Essex Building newark n. J. Very singerely yours,

DR. H. SCHWEITZER

NEW YORK. February 16, 1916.

Mr. Thomas A. Edison,

Orange, N. J.

My dear Mr. Edison: -

outer

Mr. Meadowcroft just informed me of your liberal contribution to the Bazaar which will be held in Madison Square Garden from March 10th to March 24th.

Permit me to thank you most heartily for your great generosity in not only giving us the instrument, but also arranging for a concertsduring the time of the Bazaar and for demonstrations of recording the human voice.

I have already communicated with the Bazaar authorities and have arranged for the construction of a concert room. The exhibit will be in charge of the German Chemists' Society, which will take great pleasure in arranging with Mr. Mendowroft all further details.

Again thanking you, I am, with kindest greetings,

Yours sincerely,

SERIAL No. 4396/

BILLES FOR THE GERBANCE OF RELATIVES OF INNATES.
Write Plainly in English.
1. In directing letters write immutes name and serial number plainty to envelope, Lock Bax 611.
2. Inmates one write every Sunday.
 Articles which imputes will be permitted to receive; religious backs and popers, family photographs and westing apparel.
4. All other permissible article will be bought by the Warden or his
 All money remitted to innutes should be sent direct to the Warden, by P. O. Money Order, Dudi or Reg. Letter.
a Correspondents must give full name and address, ar letters will not be delibered.
2. Darling most confinct immets will be germitted in receive visits from the following teathers: Futher, Mather Thushand, Wills, Intaller, Sister, Son, Dangdier, Gassel Marsuts, and Estand Children, on one Verder-oloy afternoon between (2004; Na and 4 y b, and will be allowed in visit mill. 2005; V. M. Our visit in month allowed. If Webstern and Children (2005) and the property of the Children of the Visits and Single Reckets of emisles and discount of the Children of the Visits and Single Reckets of emisles and discount of the Children of the Child
 Relatives on their first visit me required to here a letter of indentification from an official of the city or county in which they reade.

TO WHOM Tho	nas A. Edisov.
ятинит но. рокультися Мех	rio Park
COUNTY	lersey (1246
STATE / COLO	out of the same of

COLUMBUS, O. February 201916.

Dear Six,— Same serving sever years here in the Chie state Peneter trang and archard part with I would into the state of the property and archard and being supplicanted by one of laternative that has been supplicanted by one of laternative that for any charing the state of the form and draw such as the way of the stay him and draw and the stay him a sound of the start for a great or a state who has not a sound a sound the stay of the stay of the start of t

43961.

Day that I have centurary phonos lightly to the previous but am at present cleaned out if more comain.



CENTRAL VEREIN

seifine Anterstützungs-Geseilschaft Germunin.

Milwaukee, Februar 23,1916. Write and say that I have just presented and a large sphone to the German Bagar

The Edison Phonograph Co., Orange, H.J.

Dear Sir:-

Ho doubt you have already heard about the "Charity Bazar" which will be held at the Hilwankee Auditorium from Larch 2-7, 1916 for the benefit of the war sufferers the Law Hill a Lucken

The auditorium, a world famous building, has been rested from

The unditorium, a world famous building, has been rested from collar to root. Every inch will be used to raised money for this case of purpose.

The greatest attraction is the white that that the has a cupacity of about 15,000 to 20,000 people. When hall has been divided into booths. Every society has taken charge of at least one booth in which they will sell articles or all agreed as I could always the selection of the collection of the could always the selection of the could be a selection of the collection o

from all over the world, a rug from Falestine, antiques from Jerusalem, table cover from India, wagons, horeee, automobiles, tickets for trips to Europe, houses, lots, pianos and every thing imaginable, also and good deal of cash money has now to the value

The only thing that is not represented at the auditorium so fur an honograph and I am hereby deking you to places to be so kind and donate one of your splendid machines to this bazar. If it is not possible for you to send one, you could give us a crodit to one, of your Hilwaukee agencies.

This would be very good advertising begane there will be thousand of people attending this burnt dilly, and only from all wanted but from all over the united States and most of the bisconsing business men are amxious to donate to have their goods displayed there.

It would be a very emall expense on your side and you would be doing a very good deed which will never be forgotten, and god will Sekretärs-Office
Room 11 Metropolitan Block
Third and State Streets



CENTRAL VEREIN

Gegenseitige Anterefützungs Geneilnehaft Germaula.

Milwankee.

#2.Edison Phon.Co.,

be proud to say that you also did something for the benefit of the invalids of the war and also the widows and or hans of the soldiers who gave their lives for their country.

. Hoping that you will not decline this appeal to help along this noble cause and hoping to hear from you very soon,

Thanking you in advance, I am,

Jratefully yours,

Name Wall Sec'y of the Central Ver.

G.U.G.Germania.

The Comment of the course of t

29 WEST THIRTY-THIRD STREET NEW YORK TELEPHONE 357 GREELEY

Mrs. Pauline Kruger Hamilton

The Austro-Hungarian-American Committee of Vienna

OFFICIAL COMMITTEE

Count Albert Apponyi

Count and Countess Hedervary

Countess Nandine Berchtold
Professor and Mrs. Fuchs

Professor Baron and Baroness Anton von Eiselsberg Professor Baron and Baroness Clemens von Pirquet

Pauline Kruger Hamilton

[ATTACHMENT/ENCLOSURE]

"A Night in Vienna"

For the Benefit of Austro-Hungarian Orphan Babies and Blind Soldiers

GRAND BALLROOM, WALDORF-ASTORIA

Monday, March 6th, 1916, at 9 P.M. A DELIGHTFUL entertainment, replete with novelties, has been provided for you. Many of the country's most celebrated artists have contributed their services to make "THE BABY'S FESTIVAL" a success.

VIENNESE AND HUNGARIAN MUSIC

This entertainment will afford you an evening of delightful pleasure and an opportunity to aid a most worthy cause.

Arranged by MRS. PAULINE KRUGER HAMILTON, under the auspices of the Austro-Hungarian Committee of Vienna

COUNTESS NANOINE BERCHTOLO COUNT AND COUNTESS HEDERVARY PROFESSOR BARON AND BARONESS ANTON VON EISELSBERG

PROFESSOR AND MRS. FUCHS PROFESSOR BARON AND BARONESS CLEMENS VON PIRQUET COUNT ALBERT APPONYS

MRS, PAULINE KRUGER HAMILTON

Executive Entertainment Committee MR. H. C. PENNRICH, Chairman

MRS. PAULINE KRUGER HAMILTON MISS ALICE KAUSER

MRS. CHARLES KNOBLAUCH DR. FRIEDRICH FISCHERAUER COUNT FRANZ REVERTERA

PROFESSOR PAUL EISLER, Chairman Musical Committee . MR. VICTOR C. WINTON, Chairman Ways and Means Committee Programme Committee . MISS ALICE KAUSER, Chairman Finance Committee . MRS. IMRE JOSIKA HERCZEG, Chairman Patrons' Committee . COUNTESS REVERTERA, Chairman

Dr. Fischerauer, Chairman Press Committee Misses Godowsky Costumes Committee

Decoration Committee MR. P. T. FRANKL

"Babies are Neutral"

For further information, please write or telephone MRS. PAULINE KRUGER HAMILTON 29 West Thirty-third Street, New York City

Telephone: Greeley 357

ud M

Fob. 28th. 1916

Dr. Hugo Schweitzer, 117 Hudson Street, New York City.

My doar Dr. Schweitzer:

This letter is writte, (imply as a reminder that we are exciting instructions about the Diamond Dice and twenty records for the Gorman Bazaur.

I suppose your friends will advise us in seed time. I am morely writing to show you that the matter has not been forgotten at this end of the line.

Yours very truly,

Bazaar for the Relief of Widows and Orphans of German and Austro-Hungarian Soldiers

OR. E. BARUCH, PRESIDENT.
JUL. P. MEYER, (Director) Humburg-American Line.)
TRANSUMEN.
CHAS. FROED, (Prisident German Samers Rose), Resolits.)
CHAS. FROED, (Prisident German Samers Rose), Resolits.)

New York, March 6th, 1916

Dear Sir:

Whatever view we may take of the political aspect of the controversy in Europe, we all regret the cruel war raging there and sympathize with the innocent victime, the widows and orphens. A bazaar will be held in Madison Square Garden from March 11th to 24th to raise a fund in aid of the widows and orphans of the German and Austrian soldiers who fell on the battlefield.

The American people have ever been ready to relieve the distressed and the needs of the widows and orphans are especially appealing; the loss of husband and father they have to beer with what fortitude they may command, their material necessities it is in our power to alleviate. Will you aid in this humans work by sending a liberal contribution?

The second of th

HENRY L. DOHERTY & COMPANY SIXTY WALL STREET

Mr. Thomas A. Edison,

Llewellyn Park, N. J.

Dear Mr. Edison:

Warch 9th, 1916.

The New York World will shortly inaugurate a campaign to secure a fund of \$30,000.00 to provide the machinery and equipment to work out a higher standard of illumination than has yet been demonstrated by lighting the Statue of Liberty.

If this plan meets with your approval, you can help create interest in the campaign by sending in your endorsement to the New York World immediately after the first article is published. I will arrange to notify you by telegram or letter when the first article will appear.

It is desired to keep this matter strictly confidential until the opening gun in the campaign is fired by an article in the New York World.

Yours sincerely,

HLD/F

Hung Dohnty

THE NEW YORK ASSOCIATION FOR THE BLIND

PRESIDENT HON, JOSEPH II, CHOATE

VIGE-PRESIDENTS
MISS HELEN KELLER
DR. JOHN H. FINLEY
DR. F. PARK LEWIS



MR. ROBERT W. DE FOREST
TREAGURER
MR. FREDERICK L. ELDRIDGE
SECRETARY
MISS WINTERED HOLT

LIGHT HOUSE NO. 1

TELEPHONE, PLAZA 3370-3371

HONORARY VICE-PRESIDENT

OBJECTS

TO PREVENT UNNECESSARY BLINDNESS TO MELP THE BLIND TO HELP THEMBELVES TO SUGGOR AND RELIEVE THE ILL. AGES AND NEEDY JUIND

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CYMMASTICS
CONGERTS
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CHITIGISM AND
HUGOESTIONS ARE
WELCOME
THIS WORK IS
SUPPORTED
ENTIRELY BY

VOLUNTARY
CONTRIBUTIONS
(HIFIGE HOURS
FIGE SECRETARY
MAY BE FOUND
THURSOAY
A TO 6 O'CLOCK.
OR BY APPOINTMENT

Dear Mr. Edison:

On behalf of the President of this Association please allow me to thank you for your welcome contribution

please allow me to thank you for your works construction for which the receipt is enclosed.

At this particular time we need more than ever the support of our friends, and we deeply appreciate your continued interest.

Very truly yours

FOR THE NEW YORK ASSOCIATION FOR THE BLIND

Thomas A. Edison, Esq., Orange, N. J.

THE NEW 'YO! PHONE, PLAZA 3370	New York, March 221916. KK ASSOCIATION FOR THE BLIND 111 EAST SOTH STREET Acknowledges with thanks
the receipt of J	Commence to the state of the st

"It is very encouraging to note the progress that the Association has made. It is doing great work, necessary work, practical work" Hears Keller, Vice-President, The Organization receives neither Gip nor State aid, but depends entirely on Voluntary Contributions.

PLEASE ADDRESS ALL CORRESPONDENCE TO THE FIRM AND NOT INDIVIDUALS

7ile

BUSINESS DEPARTMENT.

DALLAS, TEXAS

March 24, 1916

WEEKLY JOURNAL FOR THE FARM HOME

Er. Thos. A. Edison, Orange, N. J.

Dear Sir:-

In the absence of Col. F. P. Holland to whom it was sent, your favor of Larch 17th inclosing check for 550 as a contribution toward a home for superanuated writers, has come to my deak.

In behalf of Col. Helland pensit me to thrusk you most sincerely for the contribution. The Colonel will be absent from Dallas for several weeks but will write you in person on his return.

Yours very truly,

HARAGING EDITOR.

COLBY & WHITING LAW OFFICES ENSEX BUILDING, NEWARK, N. 8574)

Fr. Thomas A. Edison, Orange, N. J. Dear Sir: ghave interlyaced the attrice Tongar Bromotors I find that their scephialion promotors acts deduct is a rount

At the request of President Hibben, of Princeton University, I ome calling a meeting of a number of them living in the neighborhood of Mewerk and the Orangee to discuss the possibility of taking some part in supplying and menaging a New Jersey Worth at the Alliang Borner to be hold at the Grand Central Palace, New York, Jung Control of the War to the Hilliang Borner to be hold at the Grand Central Palace, New York, Jung Control of the War Relief Committee, the War Relief Committee, the War Relief Committee, the War Relief Committee of the War Relief Committee of the Barbara of the Marional Afficient School of the War Relief Committee of t

I realize that you have already received metry appeals for this utilities, but the conditions in Belgium are such as to call for even greater sacrifice from those who can spare the time and effort. I speak of your sacrifice of time because it is your time we need in this instance and not your money as the object of our undertaking is not to raise funds, but to induce manufacturers to give goods that may be sold at the Bezaer. The result, of course, is the same, but the method is different and shifts the burden from the few who have already done more than their share, to the industrial community now able and willing to contribute generously.

The meeting will be held at my office, Room 520 Essex Building, Newark, Monday afternoon, May 15th, at four o'clock. I trust you will find it possible to attend.

> Yours very truly, Two cott (i) To.

EC/RCC

PRINCET - Portnet

PRINCETON UNIVERSITY PRINCETON, N. J.

PRESIDENT'S ROOM

My dout to to the Bagar was original priomotion of the Boyar

Mr. Everett Colby has informed no that you had some the first factor than the first manager in your mind concerning the financial standing of their the business arrangements, and Mr. Cecar Straus and Mr. Hemphill, Proceedent of the New York Guarantee and Trust Company, both assured me that the arrangement with them was a entiefactory one. (The Basaar ie to pay the Grend Centrel Palace 10% of the amount received. to cover rental of building, light, heat, the construction of booths, the carpenter work, the care of the building, the receiving and handling other of all merchandise which is to be cold, and all overhead charges. Hr. Homphill seemed to think that the best arrangement was one in which there could be no possibility of the Bazaar losing by any possible financial irresponoibility on the part of the members of the Grand I am very desirous of securing your cooperation, Central Palace.

Thomas A. Edison, Esq., Orange, N. J.

with warmest regards,

C. A. COFFIN THRETY CHURCH STRON

Thomas A. Baison, Bay just we sould give the Z #250

Orango, H.J. as proges a have allered of our green free by dear Hr. Edison: Expense heat their farment promises

I have unlucking been trawn into the position of a member of the executive committee or the annual plant, which is to be held in the Grand Central Palace, New York.

It is hoped it can be made a great success, including as it

does the work for and activities of the flank the good of Commission for Relief in Belgium.

National Allied Relief Committee, and Reley Commissions of Relief Committee.

War Relief Clearing House for France and Her Allien.
I am interested in and working for all these organizations, as
well as a half dosen others connected with this norriols war.

Hy purpose in writing this is to ask if you out of the generosity of your soul, will contribute such thing or things to the bassar as are most characteristic of for great work and supply a demonstrator therefor for the period from June 3rd, to June 14th inclusive.

All the members of the executive committee of the bazar will greatly appreciate anything which you feel disposed to do.

very truly yours,

but my biseries alter the noise of Tager hieros it but my biseries at the noise of Tager hieros it but my biseries at which the noise of Tager hieros in uppossible to three them is to formation and a maintain of maintain the purchaseing a maintain of maintain to the purchaseing to the total a track to the same of the purchaseing to the total the total and the tota

C. A. COFFIN UMBER CHURCH STREET NEW YORK

May 18, 1916

OG (50

Thomas A. Edison, Esq., Orange, N.J.

Dear Mr. Edison:

Referring to my appeal of yesterday on behalf of the ALLIED BAZARR, I think I should tell you that it will be difficult to arrange for a separate room in the Grand Central Falnee, but every effort will be made to have anything you donate so placed as to make a demonstration of it practicable and attractive.

Very truly yours,

Min. Here just meller in another in the mention in the contraction in the mention in the mention

Mr. Edison:

Referring to Mr. Coffin's letter of the 17th and your notation thereon, I wish to call attention to his subsequent letter of the 18th. You will note from the latter that bequested to the artis, now will now a time to be leaved to the anticipates difficulty in getting a separate room for us. I think, however, there would be no difficulty in putting up a booth, but the expense would be considerable and would probably have to be borne by us.

There is another important consideration involved. If we give them a phonograph or phonographs to be raffled off, we do something that we would not permit our dealers to do. As you know we are skating on pretty thin ice when we demand that our dealers observe all of our rules and regulations in respect of price maintenance, and I believe we ought not to do snything ourselves that we will not permit them to do.

It is my opinion that it is inadvisable to demonstrate the instrument at this Bazaar:

lst - The Edison, like the Mason & Hamlin and Steinway pianos, is a little too fine a thing to be demonstrated satisfactorily in such a place.

2nd - The expense of demonstrating at Expositions is usually out of proportion to the benefits derived, and we have adopted the rule of declining to go into any Exposition as an exhibitor.

3rd - If we present a couple of Edison Phonographs to the Bazaar and permit them to raffle the instruments, we thereby do something that we will not permit our dealers to do and correspondingly weaken our position on price maintenance.

It appears to me that, everything considered, it would be better to send a check to the Bazaar for a reasonable amount than to make them a present of a couple Phonographe, and conthen to make them a present of a comple Phonographs, and considering the fact that responsibly can't get a suitable room factoring the meanstration unless we put up a booth curselves, I count to believe that the advertising we would get from the demonstration at the Bazaar would be worth the expense. However, if after considering all of these points you nevertheless feel that it is advisable to go ahead, I shall get in touch with Mr. Coffin immediately. mascuil Coffin immediately.

HA-MW

COPY

C. A. Coffin Thirty Church Street, New York.

File word

May 23, 1916.

Thomas A. Edison, Esq., Orange, N. J.

Dear Mr. Edison:

I am now informed that, it having been decided to take an additional floor at the Grand Central Palace for the ALLIED BAZAAR, a room can be provided for the demonstration of your musical devices.

I therefore hope you may be constrained to make the contemplated donation with the understanding. of course, that the arrangements for its demonstration shall be satisfactory to you or your representative.

The bazaar management also inform me that it would be greatly appreciated if you could send an autograph letter somewhat in the following form:

> Allied Bazaar, New York.

This phonograph is my personal contribution to the Allied Bazaar, and I hope it may be of some satisfaction to you and afford those to whom it or other phonographs may be awarded, pleasure and profit for many years.

You have my congratulations and best wishes

19 man of the a Edison

Mr. Edison:

Referring to the attached letter of the 24th from Mr. Keeler, there is not the slightest legal reason why we should not sell instruments to the Bazaar at any price we see fit. If we decide to do so there are no formalities that need to be observed beyond having a gentlemen's understanding with them as to the meamer in which the instruments will be dis-posed of at the Bazaar.

The objections to selling Edison Phonographs to the Bazaar at a discount are objections based on the Company's policies.

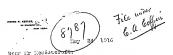
One source of strength that we have with our dealers is our rigid adherence to the one price policy in dealers is our rigid adherence to the one price policy in all of its aspects. We are credited by the trade with a greater sincerity in this respect than any of the other and returers. We take great saids from our own employees no one but a lloemed dealer or jobber with an established place of butness can buy Edison phonographs from us at less than full list price. If we make an exception to this rule; in the count is an abreaking down of our traditions and in the pret it as a breaking down of our traditional policy.

The second objection to letting the Bazaar dispose of any come iderable number of Edison Phonographs is that there will be no dealer whom we can compel to give mechanical service in case anything goes wrong with the instruments, with the result that we would either have to look after them ourselves or hire a jobber or some dealer to do so.

dealer to raffle an Edison Phonograph, and if we promot the raffles of several Edison Phonographs by the Basar, we perhaps somewhat weaken our position with such, dealers as learn of our action. maxwell

WM-AH

[ATTACHMENT/ENCLOSURE]



perm in Hendaudrost.

tribution of a phonormy, to the inited Lenner, to be dispace from the property of the inited Lenner, to be dispaced by the property of the inited Lenner, to be dispaced by the property of the inited Lenner, the property of the inited by the property of the other near the property of the other near the care in the case of the "monotive boundteen, we mant this to have fit in Tale to the property of the other near the care in the case of the "monotive of the property of the care in the call by the Lenner, the property of the care in the call by the Lenner, the property of the care in the property of the care in the call of the lenner, the property of the property of the care in the call of the care in the lenner of the care in the length of the care in the length of the length of

P S.It is obvious that, by the method adopted in the one rechite would be only

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C.C. for Mr. Meadoweroft.

May 31, 1916.

Dr. John C. Libber, Frendest, Princeton University, Princeton, ... J.

Doar dir:

Ta note ift. Mison's latter to you of they 20th, edvising that the writer would communicate with you in connection with the supplying of an Adison Distating Eaching for the (11).3 Fanctor.

To believe that we are noting properly in this matter to enough which bloebting installs with the Phonograph which is being installed this work in the Grund Central Pelance, and if you have any further instructions be give the writer, we will be pleased to hear from you

Yours very truly,

THOMAS A. EDISON, INCORPORATED,

THIRD VICE PRESIDENT.



At the outbreak of the war the Covernors, the Staff, and the students of the University of Zoronto organized, 2 base hospital, under the direction of the Dominion Government, for service at the front, and which was placed at the disposal of the Allies, and which mor is located at Saloniki, in Greece, where it trusts over 1500 soldiers delly.

when the Camadian history of this war is written, one of its most glorious pages will be the number of Canadian hospitals organized and sent from Canada, whose efficiency and provision for the relief of the suffering and the comfort of the wounded soldiers has won the highest praise. On behalf of this work we appeal to you for hely

We appeal to you, because of that cympathy we believe you have in our work, and we feel assured that in addressing you was re addressing sympathetic friends and neighbors, and that your corporation through the intrumentality of our University, will be pleased of this opportunity of aiding those who fall in battle.

Over 300,000 Canadians are on active service, and 3,000 graduates and students of our University have enlisted, and many of them, our honoured dead, sleep under the soil of France and Belgium.

The services that our hospitals will render the mounded will depend on the resources which two commend to need the great expenditure incurred in maintaining an organization of this kind at the battle front. With a view to further siding and supplementing their previous work in reising funds for this purpose, the Students' Administrative Council of the University will publish a special illustrated edition of their college journal, "The Vareity", the full proceeds of which will get to equipment and maintenance fund of our Canadian hospitals organized for service at the front and at home, and we hope through our present companing to add 2100,000.00 to our Hospital Fund.

Among the contributors will be Sir Kobert Borden, Prime Minister of Carada; President Falconer, University of Toronto; Sir Edmund Walker, President Canadian Bank of Commerce, Sir Frederick Williams-

Taylor, LL.D., Ceneral Manager Bank of Montreal, Professor Stephen Leacock, McGill University; and many other men of international re-putation. It will contain the Honor Holl of all University of Toronto graduates and under-graduates who have enlisted; photographs and biographies of those who have given their lives for the cause; the history of the University of Coronto Base Hospital, and photographs of the Ambassadors of the Allies, at Washington.

THE VARSITY MAGAZINE SUPPLEMENT will be sold throughout Canada and the principal cities of Creat Britain and United States. Our aim is to make it the most notable publication of the year. We beg to submit that you be good enough to authorize us to reserve for your corporation, four pages, which will be devoted to an illustrated descriptive article on your plant, the consideration, or more properly speaking, the contribution, for which we leave to you. We might add, that the large subscriptions to our Hospital Fund range from \$1000 to \$40,000. The Dominion Bank, College Street, Toronto, is the depository for our Funds.

Canada is your best oustomer, many of our people were your people, and many of your people are our people. For one hundred years peace has reigned between us. Canada had the privilege of contributing mustillon. Five Hundred Thousand Dollars to the people of San France Million, Five Hundred Thousand Dollars to cisco. We now appeal to you, not for Canada, or her people, but for her fallen soldiers, who are fighting for the common cause of humanity.

A duly accredited representative of the University of Toronto will shortly visit New York, and we would esteem it a great favor if some member of your executive could give him a brief opportunity of presenting our cause, and in advance, on behalf of this great University, we bog to thank you for any favore, or any consideration you may extend to him.

We beg to remain.

2 -

Yours faithfully,

STUDENTS' ADMINISTRATIVE COUNCIL.

General Secretary and Treasurer of the Varsity Magazine Supplement Hospital Fund,

University of Toronto, Toronto, Canada,

CHARLES WHITING BAKER COITGE-IN-CHIEF, ENGINEERING NEWS OFFICE, HILL BUILDING, TENTH AVE. AND 36TH ST. New York Residence, "Fear Halp," Montchair. N. J. I want from the man way help of I vaire from for for the man has letter and me of my little plans has been ment attraction :-Scribus Ins made for me a fine aut pufle book of Tellar In Which I am asking american Chiften and grown-ups" slav, to write them hume- (at 10 to lack) and then the book is the Rut (by berning) This Major King albert of Belling Sien Hair little Cayple, Morie for from the americ Children .-I am bolly asking a few distragache Men - like Junes - & come in

CHARLES WHITING BAKER desiration there are the state of t

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the Inh is this bledge "The american Children, please his Ingal desotion The Bruiples of Taking and pestice, for Which the Relini respe her from them last full nearen of dention." I am her any good american Theory ligh that?"
Parke or lay a letter, should dis, -I am, in friends Restole Mula Daker Wer Thurs Thiting Dakes)

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Madeoraft KK 1996 Path, 1916.

My dear Mr. Edison:-

I am trying in many ways to raise funds for the French and Belgian War orphans and wne of my little plans has been mest attractive. Sorther Sons' made for me a fine autograph book of vellum in which I am asking American children and "grown-ups" also, to write their names (at 104 each) and then the book is to be sent (by permission) to Ris Majesty King Albert of Belgium, to be given to his little daughter, Marte Jose, from the American children.

I am boldly asking a few distinguished men, like yourself, to come in and join the children in this; -! end any of your family who wish to do so!, will you be kind enough to sign our book - if I send it to do so!, will you be kind enough to sign our book - if I send it signed, and Dr. High Slack do:. Our dear friend Mr. William Couper signed, and Dr. High Slack do:. Our dear friend Mr. William Couper we think it is to be worthy of the object intended. Extraction of the tand probably Col. Hoosevelt and several others also will sign it; and it seems most popular - though it has only just started. I had the send of the belgium tent, and we made several obligation for the Belgium tent, and we made several obligation for pieces - to be sent with the book so that the little exiled Frincess may give the money collected to the homeless Belgium children.

- I sincerely trust that you, kind sir, will sign this book, and make us very happy kindly tell your Secretary when I may send it over.
 - I neglected to say that in the front of the book is this pledge.

"The American children, pledge our loyal devotion to the principles of Liberty and Justice for which the Belgium people have given their last full measure of devotion".

I am sure any good American may sign that.

Pardon my long letter, kind sir, and with great admiration, I am,

Very faithfully.

(signed) R. Wheeler Baker.

(Mrs. Charles Whiting Baker).



Kindly her bach CHARITY page. -

AN ALLEGORY
WITH INTERLUDE DANCES

GIVEN

JUNE 9, 1916

OR THE BENEFIT OF THE

FRENCH AND BELGIAN ORPHANS

ON THE LAWN

RESIDENCE OF MES. CHARLES WHITING BARFE
20 SOUTH MOUNTAIN AVENUE
MINTCLAIR, N. J.

Produced under the personal direction of Mrs. Mary Hill-Brown

CHAIRS BONATED BY

CONTRIBUTED BY MR. CHAR. BUGGHE CFPLE WONTCLAIR

CAST

Justice Emerit Cinnstni CHARTLY . WINDERTH SCHROLDER LOVI DORIS DESKISS PARTH REALMETH WESSES Peace Polly Plate VICTORY . . . AGSTS OF STERING . BOYS STUART Hospir Empre vas Curve TRUTH . . . CAPRAGING HOUSER HAPPINESS ANNA VIRNING KARNALIBERT . . RESE COMMINER JOY LUCIA GATES

CHARITY: AN ALLEGORY

H'ritten for the occasion by Mrs. Many Hill-Braven

CHARITY speaker "Oh children! Motherless, Fatherless--ye immeent victims of a pitiles war-god! Rest here under my fostering care. Ye have come just the fairest of earth's dwelling-places -rich in breeliness, favoured in herons-Sweet Land of Liberty, where clear-coiced Truth and Justice make their dwelling, and where, fed by Hearen's deve, Faith, Hope and Lave blossom into fragrant flowers of golden fruitages. Ye who are draining the rou of misformus, forget all griefs and troubles. Listent the gathering music rises—the penetrating notes do seem to live and move, and led appeareds sweet Lave, the Hencen-horn! With her hand she beckons, and behold in circling flight councils divine Faith and Hope to bear her company."

DANCE

LOVE, PAITH, HOPE

Country makes "Lunk, on children, who cometh in radient beauty! Truth the unconquerable—within her heart a multitude of feathered nightingale. make music. Her votaries fling wide the doors to all her mysteries surved—therein dwelleth Knowledger and kin-bred, her sister Jostice, who keepeth rivie faith for mankind."

DANCE

TRUTH, KNOWLINGS, JUSTICE

CHARTY speaks:

"Oh word of Truth-divine and deathless one, and with the sister Justice, and all of ye who would deliver us from evil-oh help to now Numberless are they that perish; and on earth, east out unpitied, inharts lie. Wites and mothers by every altar mourn. Call we upon our Guidess Peace, Queen of our land-bid her hasten to this grove-we are in suruced of her most excellent council."

DANCE

CHARTTY speaks:

"Oh Perce, through in the highest, thou who refuseth to remain oithout thy hand-maiden, Honor, if indeed this thing is well pleasing to the blessed gods, call thou upon the deathless one, the gray-eyed goddess Athene. Entrest her to send unto us her winged mescager Victore-Victory swift as the breath of the wind -- that thou may est return and because with us for exernors, bringing with thee those bright-eyed playmeter, thy best believed children, Joy and Happiness. Victor stall bring thee Henor to sing with enhancing fame thy glorious reign. Oh Victory, with hurrying feet, wind-swift -come-rouse!"

DANCE VICTORY with HOSER

Pract with Harman's and Joy

CHARITY speaks:

"Oh children of trouble and surrow, now shalt thy griefs be turned into Joy and Happiness. The dawn of Peace bath appeared rosy-thermed with the promise of a new day. Peace and Prosperity shall reign. Under the lovely shining of the fair-freed Moon let all the land ring with song and festal minth. Love, thus shalt lend the way!

FINALE

PATRONESSES

Mrs. Mierre M. La Berts Miss. Jones Michine Miss. W. I. L. Annon Mrs. Even Marson Mrs. Even Marson Mrs. R. T. Pourtre, Jr. Mrs. V. Mrs. I. N. Lawro Mrs. A. T. Pourtre, Jr. Mrs. J. W. Lawro Mrs. Armer Townston Mrs. J. W. Strawar L. Mrs. J. W. Strawar L. Mrs. J. W. Strawar L. Mrs. J. P. Chart T.

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Molecular of the solution of t

July 12th. 1916.

Mr. Collier C. Grant, General Sconotery and Sreasurer of the Versity Regarine Supplement Hospital Fund, University of Secure, Expense, Canada.

Dear Sir:

Your favor of the 22rd ultime has been handed to me, and I have given its contents careful attention.

An advertisement such as you suggest would conflict very soriously with some very elaborate advertising plans which were decided upon several months ago, and which are now being carried out. I shall, therefore, have to ask you to excume me from entering into the advertising feature, but instead I chould prefer to send my percental check for \$100.00 for the fund, instead of giving the advertisement.

If this is agreeable, please advice me as to where I shall send the check.

Yours very truly,

29 " Rugue 1 1918 RESIDENT Clay that I will lest Wes ford You should Try Swab 4 also Cear Mr. Edison, You have often expressed an interest the two Dupority both have sercenth in the press achievells Inother of columbings School founded & marih med an belief in hard worth an wishbelin without noncense in the mount of scends but my than help always with serious to be for the street with the serious help always with serious to be shown a how demograte of the house of the old quetes having become any for again to Tomours. it has moved to a new site and is just now en kning who a splendid new plant on the hanks of the Charles. If he a anique apportunity for service, owing to the economic amelian of the country & the about recessing In an adequate suffly of property hained wen In in development of our industries. hill its read of pash achievements there can, I think, In no doubt that is will rise to the opportunit, it only it is not camped though both of funds. . 'an writing to tell you of the Snothhol's

Jeal Harlon



discussioners, & to ask you for suggestion on his possible servers of support, men who myst to ready to beef an wishbir of 20 practical & recept a kind. Needless heavy John it to glad to bell the water over with you as any him that might suit your commine.

The situation of this.

The furchese of the new site of the bushline (so seem is now), the desolopment of that site, to the seekin I sperform to of the things there on her cost find a loud seem within. This willing her all been done within the setting in the stander on the stander of the seem provided without encounting on the stander on semanting of the stander to that ordered much and to pary considerably vicensed, benette the hother to the field advantage of the seement approximation as to stange them its course in marrier places where shoughtening is most argent. The hope I might amount a few of the things the scall loudly for on large of capentiture:

DI he wipment of consess in Hyberry hopiuming. It is, I to live, consumbing ashward that on country humans fifty millions a year on backy made arouse. If the backer had brough thousand a year to open don't be suggested it could



contible very me hoully broad. He improvement of this

scandalous amdihin. 3 Better feel to for having men in Water-law Engineering.

(5) he has a syrous solver of sandary engineering, but in wel were berge will A prient day demand for improvement a samble the heading of puttic health proteins.

(Bethe fralitis for received in Electrical Engineery - h ende on young over to "learn by doing", to vercome afficulties by allerding bie problems presented in current practice.

(5) Improvement of freetities for gas engine instruction.

() . Bethe freshitis in georgia interestion the masking of

betellugical processes. 1) Not 6 presum to much upon your fabine, I shall water only on they were, but the I is a may the west infor land y-the sipment of mores in themsel ligiting. In her has such a Course for a much of yours oil her grown now rapidly of lek than any other. To meet the needs of the hims is would to strugthend & perhaps you will be whiched in a nevert eller ft to do this It is referred to & the Editor of thetalling and * Chemical liginicary as "a splundid oden of the most direct cooperation between education & widneshing that is heir henofound with reality with a bredien of ameephin



the 1 is unique is to history of chemical aducation. His a grand fromen or ferminant in aducation. (Any a 1916 p. 110) I send from make of the periodical description of the arm make of the periodical description of the make. A feeling sprind many horizon has given morely horizon to historical his any make the instead his any make for a free years, had to strong then the course in a third new make for a free years, had to strong the the course in the new make for a free year of the grand of a minute to the second of the vicious of the mathematical the second of the vicious of the mathematical the second of the s

Is will appear jum this he I herburdy weeks many million for it endowment at his stage. And git a burni here graduated within the last her years, so that they are got yeary, hard githere, for how, he gottened propositions have been there have been him to the main for them such the their ran. And yet gith when then main for the men higher a land point of the such hills as here who had a dang point of the such williams health for the rew plant a windle in him added a willer total as to the such as they can we could be such as they can we could be a supported to the street house to do after in the fresh a sought to after a world.



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wingsong to observing of my hundrating aporyon I am away amongs the montains of that Decent - approximately in strong appears. I support to to have a the next protegyed, which hadron to Boston

Tichen C. Maclaurin



NEW MASSACHUSETTS INSTITUTE OF TECHNOLOGY

A School of Chemical Engineering Practice BY WILLIAM II. WALKER

In the address delivered by President Maclaurin at the dedication of the new buildings of the Massachusetts Institute of Technology, published in full in the July I issue of this journal, he stated, "This-the ade quate supply of properly trained men-is the cardinal doctrine of industrial preparedness recognized by thinking men to-day as one of the greatest necessities of the

While there will always exist some difference of opinon as to what constitutes a properly prepared man, there are certain qualifications with which he must be provided. For example, he must be well grounded in science, trained in the applications of its principles to daily problems, have acquired engineeering points of view and angles of approach, and have developed business perspective with relation to industrial work. In short, there must be produced the potential engineer, When a man has acquired a solid foundation in science, has become un accurate observer, un exact and logica thinker, and has developed a lave for the application of this knowledge to the investigation and solution of the many problems which industrial practice presents, he has done murvelously well; but he still lacks much that goes to make the successful engineer.

While it is true that the resourcefulness in upplying theory to practice, the training in the solution of indus trial problems, the general business perspective, and self-reliance, which in time complete the mun's education and make him a creature engineer is obtained in its entirety only by years of experience, there is much which engineering schools have accomplished to reader more quickly uvailable the scientific education of the bryonic engineer. Without well equipped mechanical and electrical laboratories it would be a long and dillicult step to pass from the small apparatus and light load of a physics laboratory to the heavy responsibilities of a power plant. But in operating and testing the commercial-sized units with which mechanical engineering laboratories are readily equipped, a measure of selfconfidence and an uppreciation of responsibility are ob-tained not otherwise possible. In addition to all this, the student translates for himself the fundamental principles of physics as exemplified in the laboratory into the application of these same principles in units and processes of commercial size and value.

But such facilities have to a very limited extent been available for instruction in chemical engineering. The

important and of Alance controlling difficulties inherent scale are not present when this same process is conducted in a coenomical laboratory. To duplicate the apparatus which has been designed and built for factory operation is possible, and in many cases well worth But in order to study its performance the apparatus must be operated-a process for which it was designed outst be carried out. This procedure is obvi-ously expensive and at best limited in its scope. A student cannot acquire the self-reliance necessar, operate a high-pressure digester holding 25,000 gallons of acid by experimenting upon one of a few liters capacity. He cannot learn how to meet difficulties incldent to handling a filter press, an electric furnace, a multiple effect evaporator, a rotary kiln, and so on, it he has access only to such apparatus as the laboratory can provide. That experience which means power to execute comes only from contact with commercial sized upparatus operating under the conditions imposed by

Neither can the student obtain that training in the pplication of the principles of science to the problems of chemical industry on which successful industrial resourch so largely depends, without an opportunity to live with chemical processes which are being conducted on a large scale. It is true that the research chemist must be this to visualize the hitherto unaccomplished fact, but on the other hand, the undreamed accomplishments of the future, while using methods and equipment now unrealized, will also undoubtedly to a large extent employ the upparatus and the processes of to-day, although along new and varied lines. A familiarity with what does and does not succeed in present practice is the best foundation for that soundness of judgment so essential in every resourch worker, and most especially in those who are to direct and guide the activities of our industrial research laboratories.

In view of the impossibility of developing the type of engineer outlined without greater breadth of method and of contact than is possible in our educational institutions alone, it is generally recognized that the industries themselves have a duty to perform in this regard, and that without their co-operation educational accomplishment must remain imperfect. On the other hand, no satisfactory scheme involving industrial co-operation with educational institutions has hitherto been proposed, and the conception and inauguration of such a scheme cannot but represent an educational advance of

the first order.

AUGUST 1, 1916 METALLURGICAL AND CHEMICAL ENGINEERING

Within the last few years a comprehensive plan of great promise for the more adequate training of chemiical engineers along those lines has less originated and considered the control of the con

As Mr. Little points out in his report to the Corp tion of the Institute, "uny chemical process on whatever scale conducted may be resolved into a co-ordinated socies of what may be termed unit actions, as polyerizing, mixing, heating, roasting, absorbing, condensing, lixiviating, precipitating, crystallizing, filtering, dissolving, electrolyzing, and so on. The principles underlying each of these unit actions are the same, however different the materials operated upon may be. Thus in a gas absorbing system, the laws of counter current absorbtion which control the account of an ann scrubber do not differ from the involved in m scanner do not differ from the involved in making suffice digoster acid. The months of the train that out of operations is not very large and relatively few of them involved in any particolar process. The complexity of chemical engineering results from the variety of conditions as to temperature, pressure, concentration, etc., under which the onit actions must be carried oot in different processes, and from the limitations, us to materials and construction and design of apparatus, imposed by the physical and chemical character of the reacting substances. It is possible to so select a relatively few industries that there will be represented by them all of the important unit actions of chemical in-

dustry."

In the second process of the second proper provision is Executed professions of a piece of apparatus may be studied without numerically interfering with its output. Thus the principles of multiple effect evaporation or of "numericarrent likelihout control of the second process of the second proces

- A first-hand knowledge of the machines with which the plant is equipped, operating under conditions imposed by practice, the processes involved being considered as unit actions, the factors which control their efficient performance, and a general knowledge of the cost of chemical upparatus in its relation to cost of installation and operation.
- A study of the unit operations of the plant and the process which is being curried on, as examples of the application of the principles of science to industry, their interpretation in terms of physics, chemistry unit mechanics.
- mechanics.

 3. A general knowledge of modern methods of factory management and control, obtaining thereby some familiarity with the problems presented by the human ele-
- ment in industry.

 4. The education which comes from taking part in the work of the plant; in acquiring some degree of self-confidence in handling industrial processes and large-sized apparatus.
 - To carry into execution Mr. Little's idea, a School of

Chemical Environing Practice has been organized, which will interest in scope as organized per which will interest in scope as organized. For the present it consists of five stations selected to farmish opportunity in specific fields of breadest general importunes in chemical engineering. Each statistical room and conference mon, and will be provided with a projection instern, such special library, drawings, and models as may be needed. It will be in charge of a director, who will be noted to the in charge of a director, who will be noted to the incharge of a company, Rangon, M. Here will be statisfied:

1. That most important spulleation of the principlea, in the control of electrochemistry to reactions thing place in solution, namely, the decomposition of common sult, with the formation of hydrogen, caustic solar and chlorine. The making leaf control of the control of th

of sanage.
2. The manufacture of blenched sprace pulp by the sulfite process. This is a high pressure-temperature reaction under careful analytical control, which involves most interesting equilibria.

most interesting equilibria.

3. The manufacture of poplar pulp by the soila process. In this process a study of the losses of soila through the cycle of operations is a most instructive one. It involves precipitation, sedimentation, filter press separation, systematic lixiviation and washing, and a determination of the soila tool in furnace flue gases by

the Cottrell electrostatic separation principle.

4. The boiling, bleaching, and beating of rags for paper stock, and the manufacture of bond and ledger paper. This is both beater and tub sized, and is parily drum and partly loft dried. The opportunities for chemical engineering study here are obvious.

Station B. Locatein it Everett, Mass, with the New

Station B. Leasted at Everett, Mass, with the New England Gas & Coke Company. Without going into detail. Toppertuning operates in the control of the covers and water gas plants, with all the apparatus incident to the recovery of amphitushene, hencol, tolool, trammonia, etc. Every opportunity is here presented to study those high temperature with the proposed of proposed to the control of the control of the conparatus in recovery of the control of the conparatus in recovery opportunity is here presented to study those high temperature.

Station C. Located at Ningrar Falls with the Carbornation Company. High temperature electrochemistry is here represented is all its phases. Powerful electric furunces of both the resistance and met types are in operation, making a variety of products. The opparatus for pulverizing, with accurate separation, is here seen at its best, systems of sieving and screening, hydraulic classifying, and peacentate separation being in constant

Station D. Located at Stamford, Conn., with the American Synthetic Color Company. At this plant will be studied the chemical engineering of organic chemistry. Fractional distillation, sulfountion, alkali fusion, nitration, reduction, crystalihation, with all the necessary supparatus, are but a few of the operations here

Station E. Located near Allentown, Pa., with the Atlas Portland Cement Company. Large scale operations involving crushing and grinding in many types of machines are here offered. The chemistry of combustion and furnace control is nowhere studied to better advantage than in the mammont kilas of this plant.

To obtain the greatest good from such splendid opportunities it is clear that this school must be a part of a consecutive and consistent course of study. Not only must an adequate scientific foundation be laid before undertaking this chemical engineering practice, but provision must be made for taking advantage of the directness of purpose and enthusiasa for further scientific study which the factory work will create. This is accomplished by providing a Master's cour chemical engineering of five years' duration, including the entire summer between the fourth and fifth years.

140

The first three years are identical with those of the four-year Bachelor's course in chemical engineering a now offered at the Institute. At the end of the third your the student will elect either to finish the regular course of four years, receiving therefor the Bachelor's degree, or to spend two years and the intervening sum-mer in study and receive both the Bachelor's and Master's degrees. From those students who elect this Master's course, including the school of chemical engineering practice, the faculty will select those whose attainments and character as shown by their previous record of scholarship and by other information are such as to indicate that the course can be creditably mursued

At the beginning of the fourth year the men so se lected will be divided into five groups, and one group sent to each of the five stations for a period of six weeks. (Experience may prove that this is too short a time to accomplish the greatest good.) At the end of each six-week interval the groups will change stations, so that by Sept. I each group will have occupied each station. After from three to four weeks' vacation these men will all return to the Institute for the fifth year of advanced work, graduating the following June.

It must be kept in mind that the students going out into these various industries do not go as employees of the industry, but as students in the school of chemical engineering practice. It is intended that the work in the plant shall be wholly educational, and the men are to be under the control and direction, not of the plant organization but of the director of the station, a member of the educational stuff of the Institute.

While it is intended to give the men as much indus trial experience us possible, having them take shifts in the ordinary routine of the factory, such work will be directed throughout to secure the maximum educational result, and the interpretation of the experiences and results of work in the plant will be accomplished by conference and drawing room exercises, which will e up no small fraction of the time spent in each tion. It is expected in this way to avoid the weakness and inefficiency of previous schemes of co-operation by making no attempt whatever to have the student an economic usset to the industry, but plunning his whole netivity for its educational return to the student himself. To secure this high educational efficiency from the

contact of the student with the industry, it will be noted that the student has completed substantially the equiva-lent of a four-years' course in chemical engineering hefore entering upon the sehool of practice. This will make possible the full appreciation of the significance of every fact and the interpretation of every experience in the light of fundamental principles.

The work of the fifth year is udvanced in character, broad in scope, and almost wholly elective, the purpose being to take advantage of the student's enthusiasm and to allow him to specialize in the line in which he has found by experience that he has the greatest aptitode and interest.

But the plan is a co-operative one, and while it is confidently expected that in the work carried on by these students entirely for its educational value, there will result an accumulation of data, much of which will

be of service to the industry concerned, yet this prospective return is not figured as an asset to the plan. As n return for the use of the factory as a chemical engiering laboratory the Institute proposes to establish and direct for each company concerned a research orcanization devoted entirely to the solution of its individual problems. While a laboratory will be maintained at each station, the extensive research facilities of the Institute will be available for work of a special character, and the faculty of the Institute will function as a consulting stalf.

The carning power of industrial research is now too firmly established to require any argument to demonstrate the possibilities for co-operative service which the plan possesses. It is carnestly hoped that in it anabe found an effective method by which science may be more closely linked to industry for the lasting benefit of each.

Hygroscopic Properties of Sodium, Potassium and Ammonium Nitrates, Potassium Chlorate and Mercury Fulminate

BY GUY B. ANYLOR AND W. C. COPE

One of the vary proportant properties of substances used in explosive manufacture is that of behavior toward moisture. Thorough drying of many of the ingredients of explosives is required before mixing and many explosives must be packed in moisture-proof con tainers to prevent subsequent moisture absorption from the air.

The following experiments were nudertaken the Bureau of Mines in connection with studies of detonators (blasting caps) as the failure of a detonator is often a serious matter, and many failures are attributed to wet composition in the detouator charge. Precise information was sought regarding the coudi tions under which the mercury fulnimate-potassium chlorate mixtures generally used in detonators would take up moisture from the air, and the rate at which it was absorbed. The salts sodium, potassium, and ammonium nitrates, are much used in explosives and were included in the studies, the methods of which are

given below. The behavior of soluble salts, not forming crystalline hydrates, toward atmospheric moisture follows very simple laws. If the partial pressure of the water vapor in the air exceeds the vapor pressure of the satu-rated solution of the salt, then the salt will take up moisture; if the partial pressure of water vapor in the air is less than the vapor pressure of the saturated solution no moisture will be taken up by the salt, but it will lose water to the air. If the two pressures are equal then equilibrium occurs, and there is no exchange of moisture between the salt and the stanosphere. It should be noted, however, that this state of equilibrium does not correspond with any definite water content of the pure salt. Since the vapor pressure of pure water is niways greater than that of any aqueous solution, it is evident that any substance containing a soluble con stituent can never be in equilibrium with an atmosphere saturated with water vapor.

Observations concerning the absorption of atmosphorie moisture have been made by various investiga-tors; fortilizer materials by Browniee, solls by Lipman and Sharp, and black powder by Kullgrea. Studies on rate of absorption of moisture by sodium and ammonium nitrates, and explosives containing these salts

^{*}Published by permission of the Director of the Bureau of Mines, U. Ag. Sci. 2, 358-1.
13, Phys. Chem. 15, 769-22,
25, prit. Science-Layer

Edison, TiA. - Controlisten

Seaved Juller

Uly Dear Uh. Edward

Naving become much interested in the purposes beorge Washington Ulmorioe Building to be creeted of Washington D.G. I feel that I cannot refer so Ules George's request for a brief water of introvections in The hope that it wire induce you to grant so week of your valuable time as is successary to give her accompanying letter The attention & their it deserves.

If this were a request for a ference con tube tion from your I should hisitate to seemed it but as the beorge's request is only that you will, if you can see your way to To so, air her by a letter of introduction, or such other way as you way see fit, to as interview with Uls. Henry Ford to that who rught have an opportunity of interesting him in the project, I hope you can see your way to do so and whale appreciate the courtery

With but made I aw Very Green They Survivey Your

Thomas a. Esison Cop West Change n. J.

The Warrington, 161 Madison Ave., New York City, Oct. 13, 1916.

My impression that this project

Thomas A. Edison, Esq., to untimeter years the business command literally Park, decreased upon the business command when the business of relief

Dear Mr. Edison: Surface to Sur the property of reclusions the surface of the property of the

Through the courtesy of Mr. Lefferte, I present for your consideration some of the date concerning the Goorge your consideration some of the date concerning the Goorge Your consideration some of the date of the Charles of the Charl

washington Memorial Building. By the convenience Livelline state as briefly as possible the main facts.

Some years ago a spling the main facts.

tray Michaela with the fact that there was in the of Washington no building perture the necessia of sufficient dignity and size to permit frunctions that have a national character to be carried on in a proper way. As the As the matter was discussed, plans for a G eo age Washington Memorial Building gradually took shapken the you know washing ton was eager that our national city should be a center for that general diffusion of knowledge the promotion of which, he declared in He bequeathed his farewell address, to be of primary importance. canal bonds which had been given to him by the State of Virginia towards the endowment of a university in the District of Columbia. but these proved worthless.

In an appeal to Congress on the subject of such a university, Washington said of the essimilation of the principles. opinions and manners of our country, - "the more homogenous our

-2-

oitizens can be made in these particulars, the greater will be the prospect of a permanent union."

It would seem therefore that a convention hall large enough to provide for great national and international assemblies would be a fulfillment of Washington's wish carried out along the line of present day needs. Congress has done its part in giving a square of land facing the Mall east of the New National Museum. The control and administration of the building is vested by Act of Congrese in the Board of Regents of the Smitheonian Institute. The accepted design for the Memorial has been approved by the Photographs and ground plans of Commission of Fine Arte. In addition to the great the same accompany this letter. Auditorium dedicated to the Signere of the Declaration of Independence and capable of seating 7,000 people, smaller halls and many rooms for permanent headquarters of scientific, educational, patriotic and literary societies, have been provided.

President Wilson has recently said: "We should wish to regard thie as the one place where ideas worth while are exchanged and shared" - this was said in reference to the Hational Capital. The proposed serviceable Memorial to Washington would provide a suitable meeting place for such an exchange and sharing of views.

By Act of Congress the George Washington Memorial Association was given authority to collect funds. The same Act provided that the building must cost not less than two million dollars, one million of which must be in hand before the building operations are begun. About 350,000 had already been donated. Among the donors are Messrs. J. J. Hill, John A. Dix, J. B. Duke, Hiram Sibley, Edward Harkness and Mesdames John Hay, F. F. Thompson, Phoebe Hearst, R. D. Evans and William Bliss.

In order to hold the gift of land the Association must complete the first million before March, 1917. Therefore a special effort is being made at this time to arouse patriotic people to an appreciation of the value of the Memorial.

I appeal to you for your endorsement of the enterprise. Such an endorsement will mean more to those to whom we present the cause of the practical value of this timely undertaking than the endorsement of any other American.

If you find it possible to write a word which shall carry your approval of the plan, you will render a very great service to the Memorial. Should you also find it possible to commend the work to Mr. Heary Ford so that with your approval I may gain a hearing with that gentleman, that would be a much valued assistance. Perhaps I should tell you that my only interest personally is the satisfaction of doing my little toward this Bational work.

I will ask you to have your reply directed to me at Hotel Cadilleo, betroit, where I arrive on October 17th. Should you be interested in talking this matter over I shall be most happy to return to New York, but I trust that my statement, necessarily a long one, may find favor with you.

With great esteem, believe me, my dear Mr. Edison,

(Mrs. A.J. George) Very truly yours,

airell. yearan

THE CELLULOID COMPANY 30-36 WARHINGTON PLACE NEW YORK PRESIDENTS OFFICE

MARSHALL C. LEPPERTS PRESIDENT

October 26th, 1916.

Er. Thomas A. Edison,

Orange, N. J.

Ly dear Lr. Edison:

Your favor of the 25th instant enclosing copy of lotter written so are. A. J. Goorge to hand.

I cannot but help me so with the position you have taken in this matter, as I have been compelled sysself to decline subscriptions for many purposes which I would have enterwise liked to have made on account of the calls made to help the suffering atread and it seems take the procedure over everything slee.

I had hoped however that possibly ir. Ford with his superacundance of realth might feel that he could add this project for a Goorge Washington Komerial Eucliding to his liet of things in which he was interested, particularly as they have only a limited time in

Er. Thomas A. Edison.

which to raise the amount of money required in order to take advantage of the offer made by Congress of the land, etc. for the purpose.

Thanking you for your interest and the courtesy of your answer enclosing a copy of letter to .. re. Goorge, 1 am,

very sincerely,

Edison, T.A. - Hersins

Mp brings

Hotel Blackstone, Chi:ago, Ill. Oct. 30, 1916.

Thomas A. Edison, Esq., West Orange, H. J.

Ly dear Mr. Edison:

Your esteemed favor of October 24. is at hand. I appreciate your statement and I should not again write you, did I not fear that you have entirely misunderstood my re-

It is not at all the wish of its trusteen to have the George farchington Lemerial built at the exposure of the morital-wide relief work, the Sed Gross Societies or any other of the meritations should be income their decreased when the second of the section of the second of the seco

The fact in tank in order to bind the pledge of land siren by Goarress for years ago, the first million must be in hand by Larch next; about four hundred thousand dollars of this second is already paid in Fig. 16 believe the satisfies the sire of the satisfies the satisfies the satisfies the satisfies the satisfies of the satisfies the satisfies of the satisfies of the satisfies of the satisfies could be undertaken at once.

Because of the necessity for prompt netion, I is A hoped to interest he. Yord who could easily make this most noutble; and, quite in accord with your own views, it would not be necessary to go to the public in a general way for cubscriptions when, as you say, they are overburdened with requests framall quarters.

Purthermore, it is my understanding that, quite independent of charities which Lr. Ford may recognize and favor, he is ready to give liberally to such underskings as the Lemorial, if he can be convined of the integrity of the project and of its Hational usefulness.

May I again express the hope that you may be willing to commend the worder? This commendation would farmish me with the means of reaching and interesting hr. Ford, undoubtedly to the extent of investigating; for he certainly could not fail after investigation to recognize the wide usefulness of such

a Kemorial as is proposed. I apologize for the second acceal to you but the importance of the Kemorial as an immediate undertaking urges me on.

Believe me. my dear Dr. Edison, with most sincero regards.

Very truly yours.

(Ers. A.J. George).

Heare adders as drove.
Ana.

36 WALL STREET

NEW YORK, Lec. 12 1916

Heman U. Edwarn,

I AM IN RECEIPT OF YOUR
CONTRIBUTION OF S TO HELP
OFFRAY THE CURRENT EXPENSES OF THE
NEW YORK EVE A EAR INFIRMANY AND INTIES BEHALF THANK YOU FOR YOUR GIFT
AND INTEREST IN ITS WELFARE.

LUUS LUUS

To Charles and the many of the fatter of the form of t

Edison General File Series 1916. Chemicals (E-16-16)

These folders contain correspondence and other documents relating to the expansion, consolidation, and reorganization of Edison's personally owned organic chemical businesses in 1916. Included are litems pertaining to the addition of new product lines such as para-amidophenol (used in dyeing and photograph developing); sales, contracts, and deliveries; customer complaints about the quality of the product, and plant design and operations. There are also references to increased chemical production by other companies, declining prices, the search for new phenol and toluol customers, and the decision to discontinue aniline production at the end of the year. Specific issues that received Edison's personal attention include the design of a new benzidne plant, widespread phenol discoloration due to faulty cans, the accumulation of unsold stocks of low-demand chemicals such as naphthaline and mythane, the sale of foluol to foreign governments, and a contract dispute with Great Britain involving Herbert Lewis, John Fletcher Moulton, and Lord Northciffe.

Also included are interoffice communications providing summary information regarding plant productivity, contracts for raw materials, the distribution of phenol and paraphenylenediamine to various customers, and the status of Edison's personal chemical plants. A few documents discuss more general issues such as labor conditions, environmental pollution, Edison's opinions about the future of the U.S. chemical industry, and his ideas on color dives and chlorine products.

Most of the business correspondence was initially handled by Edison's personal assistant, William H. Meadowcroft. By the end of the year, most sales had been turned over to the newly formed Chemical Sales Division under the direction of Frederick D. Lockwood, while specialty products made in smaller volumes were sold in bulk to the American Oil & Supply Co. in Newark. Other Edison employees who appear as authors and recipients include chief engineer Miller Reese Hutchison, who also negotiated sales contracts in his own right; plant designer William H. Mason; H. H. Meno Kammerhoff, supervisor of operations at Edison's chemical plants in Silver Lake, New Jersey, plant managers Wilfred S. Dowling and James T. Phelan; experimenter Peter C. Christensen; and sales managers Archibald C. Emery and Ferderick D. Lockwood.

Among the corporate correspondents are E. B. Badger & Sons., Binney & Minth Co., Deminion Iron & Steel Co., Lid., Du Porti de Nemours & Co., Eastman Kodak Co., Merck & Co., Mistui & Co., J. P. Morgan & Co., E. R. Squibb & Sons, and Stein Hirsh & Co., as well as numerous firms in the textile and fur dyeing industries, which were major consumers of Edison's products. Other correspondents include benzol purchasing agent Clarence Dillon, aniline sales broker Stanley Doggett, Swiss chemist William Knecht, and Lleutenant Commander H. Kimberly, powder inspector for the U.S. Navy.

Because Edison's secretaries glued carbon copies of replies to the original incoming correspondence, the items in these folders are not in exact chronological order. Some of the letters may be difficult to read because of the dark brown paper used for the carbons.

Approximately 15 percent of the documents have been selected. The selected documents reflect Edison's personal role in making business and technical decisions, setting overall strategy, and dealing with specific customer relations problems. The unselected material includes routine business correspondence handled by Meadowcroft; inquiries that received standard replies; routine items relating to orders, shipping, and delivery delays; credit checks on prospective customers; routine and unexecuted contracts; sales catalogs; chemical analysis reports; customer lists; multiple copies of form letters; and replies stating that Edison was away in Florida or on a camping trip. Also unselected are technical and business documents not handled by Edison personally such as complaints about product quality; reports on benzol plant operations from Claude H. Opdyke at Woodward, Alabama, and John Bacon, Jr. at Johnstown, Pennsylvania; technical notes on plant design and operations; and routine administrative records relating to the various Silver Lake plants. The numerous outgoing letters that duplicate the correspondence in the General Letterbook Series have not been selected.

Related material can be found in the Harry F. Miller File—Chemical Correspondence and Contracts (Legal Series) and in the Chemical Production Records (Special Collections Series).

Edison General File Series 1916. Chemicals (E-16-16) January

Jan and

January 50 1916.

Mr. Edison:

Please advise me if you will have any teluel for sale this year, and if so, what price you are asking for it.

H. R. HUTCHISON.

THE EDISON PORTLAND CEMENT COMPANY dividing

Thomas a Edison_

STEWARTSVILLE, N. J. January 3, 1916.

Mr. Wm. H. Meadowcroft,

Edison Laberatory, Orange, N. J.

Dear Mr. Meadowcroft:-

I arranged with Mr. Edison on Friday

last go that Mr. Opdyke could come to us about Jan. 10th to 15th and I would appreciate it if you would make nec-

essary arrangements to this end. The sconer we get him yours very truly, the better I will like it.

My Edward and bear of lace one for he haden to bear of he haden to be had mentioned to be had mentioned to be haden to be hade

WORKS: SILVER LAKE, N. J. MAIN OFFICE

PHENOL DIVISION THOMAS A. EDISON

Silver Lake, N. J., Jany. 4, 1916.

Mr. W. H. Meadowcroft, Laboratory.

Dear Mr. Meadowcroft:-

Setter order alters to replace Wilson as Y

druss belonging to ritem & Co., we find them the state of advises that he was directed to use these drums for this purpose

Wery truly you the Manager.

Here dreams heard part and the Manager.

The Mean were approximated to the Mean were approximated to the Mean were approximated to the Mean of th

always shall me to go new shall all them

January 4, 1916.

Mr. Thomas A. Edison.

Estimated Construction Cost To Date:

Aniline Division

Labor and Material

Phenol Division

Labor and Material

Woodward Benzol Plant

Labor and Material

\$ 105,711.13

208,495.70

75,080.14

\$ 389,285.97

WM.A.READ & CO.

NASSAU & CEDAR STRUCTS NEW YORK CHICAGO

PHILADELPHIA BOSTON IS CONGRESS STREET

NEW YORK January 4,1916

Dear Mr. Edison:

gard to extending your bensol contract to the end of this year. I have token this matter up with my friend your bensol contract to the end of this year. I have token this matter up with my friends you. They have not made any selec at all for some time, and have not remembe any of their contracts which have expired, it being fheir intention to reserve all the bensol they can in order to be able to take care of you. They will not sell bensol to anyone without first giving you the compfruintly to hay.

You understand of course that they are building a plant to refine bennel, and this plant will use a large asount of their production, and they now think they are going to be able to take care of you.

I am writing them again today and suggesting that they figure over their production and requirements to that we can give you an early answer. Then you will have a definite idea of what quantity you may expect from them. I hope to have an answer for you by the end of the week.

with kind personal regards, and best wishes for a happy and prosperous new Year, I am

Thomas A. Edison, Esq. Orange, H. J.

Very truly yours,



THE ARLINGTON COMPANY

··· PYRALIN ···· 725-727 REGARWAY

Y GOODS, SHEETING, COLLARS, CUFFS, LACO NEW YORK, U.S.A. January 4, 1916.

Edison Laboratory, West Orange,

Gentlemen: -

Just how the change of ownership of the Arlington Company is going to affect you is interesting. This change will be very much to your advan-tage.

The solution department which has up to

The solution department within he sup to this time been supplying your Lacquer and Enamel needs is going to be operated by the DuPont Chemical Company at 120 Broadway, New York City. This means, that instead of having this business handled as a side line by a larger Company, it will be handled and conducted as a separate business; the whole undivided attention of its employees will be to satisfy you.

We would like to have you forward your correspondence to this new address and take up all matters pertaining to this department of the Arlington Businees with us at thie new address.

The orders which we have on hand will be given our immediate and belet attention and shipment will be made the first part of this week.

180/0 lacquer when used as a Thinner will enable you to bring the cost of enamel down to an interesting figure. Inquire about this lacquer at our new home.

THE ARLINGTON COMPANY.

ALLAN R. BROWN

Gentlemen:

August 16, 1915.

JOHN FRANCIS STRAUSS CLAUDE S. HEDDES

STRAUSS & HEDGES
12 BROADWAY
NEW YORK
TELEPHONES 2356 | DROAD
J#1

Jenuery 4, 1916

Thank there a song that was well Take there at mine a Enter out 57/2

Laboratory of Thomas A.Edison,

orange, New Jersey but ush Attention of Mr. Mesdow

ret what be there me in Hore one use to know when the Common of Westowards after Co changes the

We take pleasure in confirming herexith our telaphone to tend the message to Mr. Mesdowcroft to the effect that the Bourd of Three confirming to the property of the state of the property of the state of the property of the correctness of your entered value of benzol shipped through Rouses Point and covered by entry No.A-773, thus overruling the eppeal to re-respyraisement of the Collector, releasing the car from seizure and also relieving you of the total amount of penalties and additional duties incurred. This shipment covers our No.520 via Grend Trunk Railwey entered at Rouse Foint on

As explained to your Mr. Meadoworoft, the grounds upon which we recured this favorable decision were applicable only to this particular shipment, and have no bearing upon later entries in which additions were made on entry. It developed at the hearing through reports of the U.S. Consul end the U.S. Special Agent that the Dominion Iron & Steel Co. had been celling benzol in Canada at sixty cents per gellon on dates subsequent to August 16, 1915, and such sales prove the existence of a market in Canada at sixty cents per gallon. Whenever a foreign market exists, the law prencribes that duty must be assessed upon the usual wholesele price in such foreign market, and it consequently followe that your subsequent shipments, made during the existence of the neid Canadien

market, must pay duty on the basis of sixty cents.

As all subsequent shipments were duly protected on entry by Messra. F.W.Myers & Co., who mede additions on entry to make the price equal 59-1/24, there will be no penalties assessable upon these shipments, but the duty of 5% upon the difference between 59-1/24 and 25% per gallon (less freight, charges, etc.) cannot be recovered.

In fact we advise you against taking ony steps towerd such recovery, as we do not believe that you can be successful, because the peculiar facts relating to the seized shipment were applicable only to that shipment and have no bearing upon subsequent entries. We deem ourselves particularly fortunate in having bean successful in your behalf on the respiralement case involving the seized car out believe that it is dangerous for you to incur the expense of any further litigation.

In relation to your future shipments we advise you to continue entering at 59-1/2¢ per gallon until such time as you are servised by the Dominion Iron & Steel Co. that they are selling in Canada at less than sixty cents a gallon. When such time arrives you would be justified in reducing your entered value to conform to the price at which the Dominion Iron & Steel Co. are then selling in Canada.

We trust that we have made this matter sufficiently clear, but shall be glad to have you inquire further if there is any point upon which you require further enlightenment.

If you intend to accept the advice above given, kindly write to us so advising us, and authorizing us to sbandon any other

-3- Laboratory of Thomas A.Edison

appeals taken upon subsequent shipments.

Mesers. F.W. Myers & Co. have arranged to secure the formal release from seizure and will in due course refund to you any deposit which they have been required to make in relation to this cur.

We are more than pleased to have been of effective service to you, and enclose herewith our bill for services rendered.

Very truly yours,

JFS/McH

Encl:-

Thans Hours

P.S. Referring to third paragraph on the second page of this letter, we beg to point out to you that this addies is applicable only in considerable on the state of the paragraph of the bound of the point of the bound of the not rise above. Since one the price advances beyond sixty cents, you should enter upon the basis of such advanced price.

ld Runner

price can get tramery 4th, 1916

Dear Mr. Edison: - on 100 gals Talmal pure-

When you first mentioned tolugi, you spoke of the cure the from lat March: your late the control of the cure as available from 1st March; your last letter s 1st May. We would much prefer the earlier delivery, but are ready to consider toluol from May on. I think, however, you must name a price; I do not know what a contract of that kind would command. Can you not give me an idea?

With best wishes for the New Year,

Yours very truly,

Thomas A. Edison, Esq.,

Orange, N. J.

January 5th. 1916.

ir. Harmerhoff:

I enclosedheromith a lotter from Mittai & Co., dated December what. You will see that they ask a number of questions to which Mr. Edison has partially replied by pencil memorandum. I notice he has not replied to the latter half of question #2.

In regard to the data asked for under question.

4, you till see that he thinks that this data has already been surglied in your provious memorandum but if it ass not will you kindly sond me the informationed called for by this amount in .4.

I note that there Japanese have done an injustice to youin the way of spelling your name, but I guess we shall have to overlook that.

W. H. HEADOWCROFT.

Enclosure 6320.

Jan. 1th. 1936.

 $= \int_{\Gamma} \int_{\Lambda} v$

american Uil & Supply Co., i2 Lafayette Street, sewark, H. J.

Gentlemon:

Emclosed borotith I best to hand you original bill of lading covering chipment of 274 barrols Smathhaline shipped to you from bestack, also, on the 27th ultime in ear at. 1. E-R44038, the group teight being \$7338 pounds and the not neight 48562 pounds.

For your information let to say that this Haphthaline will be billed to you not by us, but by Hiwai & Company, Ltd.-You are probably aware that they are interested with us in the ...oodward Pinnt, and thet do the billing.

. Yours very truly,

Assistant to Mr. Edison.

Enclosur 6313.

Jan. 5th. 1916.

.r. m. D. Macdey. 135 cearl Etreet, New York City.

lear lir:

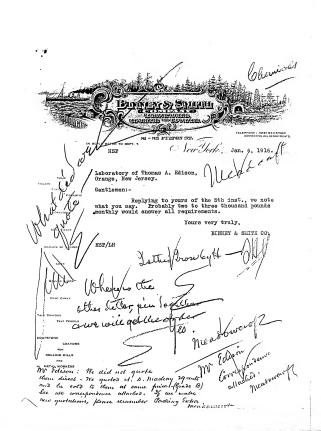
Your favor of the 27th altimo to our Silver Lake Flent hat been forwarded to this office. Correspondence on this subject should be addressed here to the 'aboratory.

to would say for your information that we make Iron By-Hydrogen for the in our own storage battery, and as we have a little surplus capacity the offer some of it forsale outside. We not no idea, however, that there was any regular demand for it from outside courses.

If you will advice us how much you would nent to obtain each month for the remainder of the precent your, Mr. Edison will consider an increase in his manufacturing capacity to take core of a remainsale quantity. Until further notice the frice will be as already quoted to you, but containers will be charged for extra.

Yours very truly.

Edison Laboratory.



American Oil & Supply Co.

Oils, Greases, Acids, Chemicals

52-54-56 Lafayette Street Newark, N.J.

January 6th, 1916

Thomas A.Edison,

Orange, N.J.

Gentlemen:=

Attention Mr. W.H. Meadowcroft.

Agreeable to your telephone request, we beg to state that our existing contracts with you on Carbolic Acid are those dated, June 19th, 1915 for 4000 lose, per day from January 1st, 1916 to May let, 1916 at 65% per lb. and those dated December 24th, 1915, one for 1000 lbs. per day for February, Herch and April 1916 at 85% per lb. and another for 1500 lbs. per day from April let, to December 31st, 1916 at 72.6% per lb. although on the latter one Mr. Hoffmann has since increased this by 400 lbs. per day, making 1900 lbs. in all, but you have not placed this form before us for signature although we understand it is made and binding.

We trust this information is what you require.

Yours very truly,

Meridan Si di Suppi voto

Sagretary

CRB/B.

DAVE GORNIGHBERGER HARRY L. GORNIGHERGER

HOENIGSBERGER

"PERFECTION BRAND" FUR ROBES

MEN'S FUR AND FUR LINED COATS AUTO ROBES, FUR RUGS, ETC.

2-14-16 So. Market Street

Thomas A. Edison, Aniline Divicion,

Orenge, M. J. Gentlemen:

Referring to the Paraphenylenedismine. meferring to the Paraphen temperature to the paraphen temperature time are and billed it to use at 44.00 a people. We can use a grant tria, but the price is too steep. Could deliver us 200 typedo gourn for delivery by the first of Fabuary at \$3.00 a pound and.

January Sixth

You probably are ware that there are other people going the manufacture of this goods, but we wish to enter to you, confidentially that they are not ready to make deliver; for come little time and that they are acting 24.50 a pound for confirmate exceeding over one year's type.

We took this matter up with you before we took it up with any objective and received a personal letter from "r. Edison some months ago

If you could deliver uo ony the above mount by the first force is at the rate of \$5.00 a pound; we will probably be in position.

1000 pounde and delivery on the harmonic by the first force is a superior of \$5.00 a pound; we will probably be in position. February at the rate of \$2.00 a pound, see will probably be in position to take up to 1,000 pounde and delivery on the balance any time between war and july times. now and July first.

Awaiting your kind reply, we remain

Very truly . youre, Markowells DH:PD

X Land Edison: wondering whether Dominion Fron & Steel Company with that we have to pay on Benzol, contract they are to deliver the the United States duty free. s letter of February 18th (copy attached You will see from the first paragraph of this letter that you are to pay any additional duty over 5%. Imasmuch as the contract price is 25¢ and the duty by, I scarcely think that we can call upon the Dominion people to pay the duty on the advanced price of 59 1/24, which we been compelled to pay duty on by our Government ME.DOWCHOFT.

Jan. 7th. 1916.

Hr. T. . Mallory, President, The Edison Portland Coment Co., Stewartsvillo, N. J.

Dear Mr. Mallory:

Your favor of the third instant in repard to ir. Opdylke was received, and we have arranged matters to that ir. Opdylke one not through at the Plant on the 18th instant.

I do not know when I have pertod with a buriness associate so reluctantly as in this case. Mr. Opdyke is a peach to work and ditto to work with.

Yours very truly,

F. 152-N

PLEASE REPLY TO SALES DEPARTMENT.

PATTON PAINT COMPANY

SOLE MAKERS

PATTON'S SUN-PROOF PAINTS MADE IN U. S. A. NEWARK, NEW JERSEY.

January 8

SUBJECT: PRICE ADVANCE #1 WATE FIRE-

: THOMAS EDISON INC TIE

Thomas Edison, Inc. , West Orange, M. J.

Gentlemen: in bbls. delivered.

Seriel as above, waich we have in Referring to .. the past been supplying you on the basis of 28g per gel.

You no doubt, are thoroughly sware of the fact that the European War has had a serious effect upon the raw materiel market, and that many commodities entering in to the manufacture of paint have advanced in cost. Je, therefore, find our cost of producing material increased, and in view of the circusstences, it is accessor for us to advence our selling price on this to 50g per cal. in warrels, which price is effective i.medi-tely. We regret very much that this is necessary, but we have given you the benefit of our contract for just as long as it was been possible for us to do so, and we trust that you appreciate our position in the matter.

Trusting that we may continue to have the pleasure of supplying this materil to you, and assuring you that the price will be revised as soon as conditions permit, we

Yours very truly,

camie Sales lana er

Whink we Tell use it on new tell Wesen to use it on new reconstructed Swines Glody

Mr. Edison:

In regard to Hapathaline, we have pretty near a curloud at ..oodward.

are you far enough along in your experiments to may whether you will want to have resorved for disc records, or shall I so sheed and bell it to Mr. Hoffman, if we can get a good price's

EADOwChOFT.

NERAL CHEMICAL COMPANY

25 BROAD STREET NEW YORK

CABLE ADDRESS

January 10th, 1916

Mr.W.H.Meadowcroft, Thomas A. Edison, Inc. Orange, b.J.

Dear Sir: -

We hand you herewith contract covering your Hydroquinone requirements over the latter part of this Hydrogulinone requirements over the letter part of this year. If this contract is drawn in accordance with your views, kindly sign both copies and return to this office, whereupon we will affix our signature and send you one copy for your file.

Yours very truly.

GENERAL GUERT ? COLUMN

The Edison is a consensual making.

This is the fame of the fame o Mr. Edison:

emclosures

Mr. Edison

You will see Mad you have the option of discrutining you plant at theodocard of the win of the good pear, or at any time thereafter, but you do not have to give any notice.

So we are all night-for three years if you want to continue.

Jan 11/16

MV. Edison

John V. Miller reported on plant to making 1000 cells a day for Horage Battery, the could furnish 4000 frames a month for shipment to abside customers.

Shall I now withdraw all qualations and make new ones of 35 cents, coolinine of packing?

let them have 3000 the a month out of the 4000 to, or do you want to split it up between them and Rosengarlen, to give merch a chemica?

Teny 11/16 Mills, is chipping Reingarden 1000 to tring.

[ATTACHMENT/ENCLOSURE]

W. Edison: My Nowy
The fait I have marked
with 3 parallel lines does not
agree with the part similarly
marked in attacked memo,
On the strength of this
numo. I wrote them several days upo, bu copy when allacked
Neasowersf

[ATTACHMENT/ENCLOSURE]

Upu might say that what we walle out ample Capacity over January 24th + 916. The above what we need for the 2 Storage Battery 4

Mr. Edison: Please read the letter of Lordreften les

Weightman-Rosengarten Company dated January 22nd, the first to the letter I wrote to them on

January 20th, thich is the next maper in this vile control of Court of Cour I was trying to divide it up between these people, Binney & Emith, and Merck.

You will see Powers-Weightman-Rosengarten Company suggests that we give them the opportunity of handling the total production. .. s I understand it, you did not want to do this, but I thought you would like to see their letter as a matter of interest.

MEADOWCROFT.

moun

Jan. 11th. 1916.

A. Hoenigsberger, 12 So. Market Street, Unicago, Ill.

heplying to your fivor of the cixth instant in regard to the price of faraphenylenediamine, we see to say that on account of the regid rice in the price of acette, and its secreity, we cannot undertake to cell Paraphenylenediamine at less than \$4.00 per round, spot each. We have a number of oustomors who have boom pering us more than this.

For cometime past we have been ware of the fact that other concerns are offering Permphonylonediamine at select as \$2.50 per pointd, but we have our doubts as to their ability to make delivery, because of the sourcity and high price of acetic, which those concerns probably supposed they could get when they quoted such a low price.

So far as the quantity you mention is concerned, we could dolivory two or three hundred pounds by the 1st of February.

Yours very truly,

Edison Laboratory.

Jenuary 11th. 1916.

s. hue

Mr. Tuck:

Confirming our telephone convergation in regard to ir. Aultaly's commissions, let me state as follows. Ar. Eultaly brought as three customers, namely, Auldrich Sleschery, American Printing Company, and A. Hollander & Sont. He is entitled to commissions as follows:

- saldrich Bloachery. He is entitled to commission on the entire contract as we make thioments.
- E. american Printing Communy. Ir. bullely in outilad to commission on all aniline Oil shipped under the old contract. We did not complete the old contract this year, so he is entitled to the salance thich we carried over 10 cm; of the contract of the corr upon the not contract of 2,000 pounds a veek 2,00 entityed during the present year.
- A. Nollander & Sone. Er. Mullely is entitled to commission on the tower annium sale you shipped to Hollander up to December Sit; but it not outiled to commission on antline aniline Solt chipped to Hollander this year.

He is also entitled to commission on the first 500 pounds of Paruphonylenediamine shipped to Hollander, but is not entitled to any commission on any other Paraphanylenediamine boyond the first 500 pounds.

E. H. MEADOLCROFT.

ame il la sui

January 11th. 1916.

Mr. Kammerhoff:

I enclose herewith copy of a letter from Lieut. Kimberly, the Mayal Inspector of Powder, East Coast.

You will notice that he has received instructions that <u>inspection and test</u> of Carbolic Acid menufactured by us for the Eavy Department shall be made and carried out at put plant at Silver vake.

at Silver ake.

As I did not understand whether or not this referred to the present auth that we have for shipment. I called up Liout. Aimborly on the telephone, and after I was through talking with him dictated a memorandum so that I could not have to depend upon my memory. For your information I am enclosing copy of memorandum hereith. You may keep all those papers.

I want to call your special attention to paragraph

2 of Lieut. Kimborly's letter, which concerns the arrangements that you and he made together. Will you kindly give your attention to this.

W. H. MEADOWCHOFT.

[ATTACHMENT/ENCLOSURE]

January 11th. 1916.

In reference to the attached letter of January 8th from Lieut. Kimberly in regard to inspection of Garbolic Acid on contract #23253, I called up Lieut. Zimberly this noon on the telephone and asked him whether the instructions referred to in said letter of January 8th would apply to the batch of Carbolic which he saw at Silver Lake a few days ago, and of which samples were sent by his directions to Indian Head for Laboratory Test. Lieut. Kimberly said that these new instructions in the letter of January 8th would, apply to that batch, but would apply to future shipments, and as to these future shipments, he would make the inspection tests in our laboratory at Silver Lake, instead of sending samples to Indian Head.

I asked Lieut. Kimberly whether the present delay in making shipment would cause us to be penalized by the Government.

Be said it would not, as the Government reckons the time from
the date that samples are taken for inspection. For instance,
if certain goods under contract were offered for inspection a
day before the expiration of the contract, and samples were
taken on that day and send, for instance, to Indian Head for
test, the date of shipment would be held by the Government to
be on that day, even if the results of the test at Indian Head
should not be certified for two or three weeks thereafter.

W. H. MEADOWCHOFT.

[ATTACHMENT/ENCLOSURE]

N. Ord. 91.

ADDRESS NAVAL INSPECTOR OF POWDER, EAST COAST.



149

OFFICE OF NAVAL INSPECTOR OF POWDER, EAST COAST.

Jersey City, N.J.,

JAN -8 1916

Subject: Cont. #23233, carbolic acid, inspection of.

Reference: (a) Your letter to Chief of Bureau of Ordnance, dated Dec. 17, 1915.

Sir.

 The Inspector of Powder for the East Coast today reoeived instructions that the inspection and test of the carbolic cold being menufactured by your Company, for the Newy Department, should be made and carried out at your Works at Silver Leke, N.J., as per paregraph 4, Reference (a).

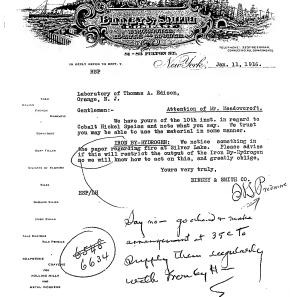
2. On my last inspection I made complete and detailed arrangements with your Mr. Kammerhoff for obtaining samples which were to be sent to Indian Head for test and analysis. Nost of these arrangements are of course now useless, and I request that you in form Mr. Kammerhoff of this change, and saying, if agreeable to you, that I suggest that of all the arrangements we made torether, he continue merely that of keeping a record of the batch or other; he bers and the drums in which they are packed for shipmart, as this will facilitate my selection samples for test and scalars.

Z. It is needless to say that inspections will be facilitated if I am informed several days in advance of the time when the material will be ready for inspection.

Respectfully.

Lieut.Comdr. U.S. Navy, Naval Inspector of Powder, E.C.

M.R. Hutchison, E.C., Ph., D. Chief Engineer to and Personal Representative of Mr. Thomas A. Edison.



WOODWARD IRON COMPANY WOODWARD, ALABAMA.

A.IIAYOODWARD

The amount of Tolust depends up the kind of Coal at our hours plant wz solain

Mr. Thomas A. Edison, Orange, H. J.

Dear Bir:-

month. They are averaging 12,000 callon per de I got this infor is that

and will ask you not to divalge it to

potent men take this up immediately with a view to discovering

where our practice is bad.

With kindost rogards, I am,

Yours truly

MWoodw o. For

Chairman .

Thomas A. Edison, 1842. 1916.

Mitsui & Company, Ltd., 25 Madison Avenue, New York City.

Attention of Mr. Shunzo Takaki.

Gentlemen:

Referring to your favor of the 31st ultime asking for certain figures and facts in regard to manufacturing Phonol. I enclose herewith a memorandam written by Mr. Kammerhoff which answers all the questions. As you will see, Mr. Edison himself answerd some of them.

We have all been so busy here today that there is no time to make a copy of it, so will you please have a copy made and return this original to me.

Mr. Edison wishes you to regard all this information as very confidential.

Yours very truly,

Wyfulleavowciofs Assistant to Mr. Edison.

Enclosure.

The trong out on Miday

[ATTACHMENT/ENCLOSURE]

QUESTIONS FROM, AND ANSWERS TO LETTER FROM MITSUI & CO., LTD., DATED DECKEBER 31ST, 1915.

Question 1. Yield of Phenol from Pure Benzol.

> (a) Are we right to understand that all the figures mentioned in your memorandum prepared bylir. Kamserhoff are based on the yield of 5.3 pounds out of one gallon of Puro Benzol?

From Mr. Edison: "You".

Answer Question 1.

(b) If so, how eeen and how much do you expect to increase this yield?

> (c) In case you succeed in increasing the yield of Phenol out of one gallon of Pure Benzol, do you oxport that the cost of all chemicale enumerated in Mr. Kammorhoff's statemont will be the same?

(b and o) From Mr. Edison: "Don't expect to increase yield Anguar if this process is used".

When you Sulphonate Benzol we understand from Mr/ Kammerhoff's statement that you use 66° Beaume Sulphuric Acid or Fuming Quostion 2.

Sulphuric Acid. Answer. From Mr. Edison: "Yes, uso 985".

Question 2. (b) Isn't there any difference in the yield of Phonol between the above mentioned acids?

This question ie not quite clear to us. We refer to our state - ment of December 24th, 1915, where we said to Question C, under inower. 2, Sulphuric Acid, that one pound of Benzol is mixed either with 2.5 pounds of 98% Sulphuric Acid, or with 1.6 pounds of Facing Acid.

> This means that the Sulphonating process can be carried out with a somewhat smaller amount of Fuming Aoid than with the normal 99% Sulphuric Acid. The Sulphonating process, however, once finished, we have to deal in both cases with Benzel Sulphonic Acid - C6 H5 S03 H - the following operations being the same, no matter whether we got Bonzel Sulphonic Acid by mixing Benzel with Fuming Acid or with 90% Sulphuric Acid, the yield of Pure Phenol will be the same.

We understand from Mr. Kammerhoff's statement that you use 660 Question 3. Beaume Sulphurio Acid diluted to 1580 specific gravity for noutralization. In Japan we can buy Chamber Acid namely: 500 Beaumo Sulphuric Acid very cheap. Do you think we can uso 50° Beaumo Sulphuric Acid instead of 66° Sulphuric Acid, diluted to 1380 specific gravity?

[ATTACHMENT/ENCLOSURE]

From Mr. Edison: "You can use Chamber Acid just as well --Answer. the reason we don't, is because we can't get it".

In your plant which makes 7000 pounds of Phonol what quantity Cuestion 4. of the following items do you uso?

(a) Quantity of Coal.

We consume about six pounds of coal per one pound of Phenol. Anawor

Quostion (b) Quantity of Steam.

We figure that one yound of coal burned in our beilers creates Amayor sight pounds of steam, which would mean that we use 48 pounds of steam per one pound of r. Fhenol produced.

Question (c) Number of Soricing Son and Laborers.

Aside of a few foremen no employ simple laborers, the more Answor intelligent ones of whom we teach to perform the different operations, the rest of the laborers acting as helpers.

> For an output of 7000 pounds of P. Phonol in 24 hours we have a force of 56 men at day time and 55 men at night time. This includes three men at day and three men at night for the boiler plant, which is supplying stoam for plants other than our Carbolic Acid Plant too; it also includes one man at day time and one man at night time for our power house, where we have a motor generator set and air compressors running.

_uestlon (d) Quantity of current.

Question

Answor

We consume about 0.4 K. W. Hours por one pound of P. Phonol. Angger

(e) Quantity of water.

We consume about 5.5 cubic feet of water per one wound of American F. Phonol.

(f) Amount of requiring exponses. Question

We figure as an average 1.75¢ for repairs per one pound of Anower P. Phonol.

Question (a) General overhead charges.

> The expenses are about 5.1¢ per one pound of P. Fhenel, these costs comprising ront, deproclation, interest, freight, supplies (miscellaneous articles) payroll for handling of freight, insurance, and trucking.

plant often 17

Chemien Co

dung thing 1996.

Seneral Chemical Company,

25 Broad Street,

Hen York City. __ttention of Ar. Peterkin.

Gantlemen:

I beg to meknowledge receive of your favor of the tenth instant, enclosing a contract covering our Hydroquinene requirements over the latter part of the present jour. The contract in in accordance with our telephone understanding, and Mr. Edicon has alrenod both copies, which I return to you horowith. I undersuced that you will in due course return one for our liles.

Yours very truly,

assistant to the Edison.

Contracts.

Jen. 15th. 1916.

principal Piece of butiness at limiting, a corporation, neving the principal Piece of butiness at limiting an element, horsely arrors to precise at the price and sees the terms corein provides for, from locate. Altread terms, on borroy, and to tell those ... Altread hereby arrors to call to the suddi... I Butiness described a locate and the control of the sudding and the sudding the sudd

. U.LITY.

now of mailt, human at a re-class, as to conly of an acolonism type collections. Accessed to the collection of the col

.U.STITY.

To us the entire suspet of . P. Toluol made at this call and a formal laint to found to a continuous continuou

for the surpose of octanting the third parallel materials of the following the following the following the contract, the dates merely traces that his two production of the following traces that his two production of the following traces and the parallel materials make the sections of the following traces and the parallel materials and the parallel materials and the parallel materials and the following traces of the following traces of

ago two-

merefore, the not amentity ordered to to be supplied under table contract (effor code.crime to those accounts to the region of the contract, regions to the contract, regions or one mander of the contract of

erick. To be three delices and accounty-five centre (\$2.75) year nellow, "a beneficial to the construction to the construction of the construction

DELIVATION TO be delivered the accounts in carload lote as corner to practicable efter production, commentar say let, 1935 and outlan artif to the 1937, unless otherwise matter by arrest mean outmon sartiet acroto.

Airty (3.7 dage, or love 1, within ten (1.7 665, from 6tte of each chimment, suchle in dow fork city funds, in united thats rold or its equivalent in inited thates earrosey.

computant. It is mutually agreed that said Thomas a Reison shall not so liable for any helpy in supplying or fellure to upply the product or any income face tracked for, due to any ire, mar, flood, strike, location, cocident, or any uncyclebel cause, or due to insulity to obtain material.

(signed) Thos. .. Deison.

..ccortod.

L. I. Du sont de Comours & Co.,

per J. h. Hillor, P. a.

January 14th. 1916. Carbelie

Mr. Edison:

The american Oll & Supply Co., have a contract with us for Carbolio acid, 1500 pounds a day, from april let to December Slat, at 72.6 cents per pound. Mr. Hoffman saked a few days ago if we would add 400 pounds a day to this contract. making 1900 pounds a day in all from april let to December 31st at 72.6 cents. I told him I would speak to you about it, and I thought that you would consent to do it.

I think it is quite safe to make this addition. Shall I cover by contract?

MEADOWCROFT.

All right from can from

Mr. Edison: The following is the production and ships the Johnstown Plant and Woodward Plant for the year 191 JOHNSTOWN . Purified Solvent Naph. 90% Benzol. Pure Toluol. Pure Benzol. 31165 16234 28470 59432 To be refined from stock on hand Jan. 1st, 1916. 6900 14350 26200 Total-85632 . 16234 Shipments to Jan. 1st, 1916. Purified Solvent Naphtha. Pure Toluol. Pure Benzol. 5,771 129.907 16,326 On hand Jan. 1st. 1916. 1.500 14,039 Estimated from stock. 4.300 22,000 Total 165,146 22,126

M Editar head months And

Ro: DELIVERY OF HEROL TO E. R. SUIBB & FORS

Since we got oeveral months ago the complaint, that some of

the Phenol had a strange small, we took when to avoid writter of high the little respect. In this respect. In fact, we take prompting Sectional Association to good to Squibb, a special sweet, which we test in radio according to good to Squibb, a special sweet, which we test in radio according to good to solor, small and crystalling point. As an apt to of these promettions, the Phenol does not come to satisfy Squib we intend to go still further, and filter the Phenol through an exceedingly fine bronze filter. In this way we hope to do away with mechanical dirt, the latter resulting, as for me we can find out, from very small particles, that are carried over from the receiving testing.

As to brownish or reddish color, we will try to be still more careful.

As to white sodiment, we are at a less to uniorstand what this means, as we never noticed it, nor can we find such a codiment in the numerous sample bettles we keep here in our laboratory.

Gould we not ask Squibb to lot us have a small sample bottle showing the white sediment he is complaining of?

In order to recove any possibility of sending Squitb Chenol which does not satisfy them, I suggest proceeding as follows:

We know in stock from now on ten 250-pound came, onnough for two wooks' supply, and sond a small sample bottle from every can to Squibb and have it tested. After receiving their note that the Phenol lo up to their standard, no make shipment. On the label of each bottle we will point out the number of the 250-pound can and the crystalizing point which we find by testing in our laboratory.

M. KAMMERHOFF.

Silver Lake, N. J., January 14th, 1915.

Mr. Meadoweroft.

Ro: RAW MATERIAL

As far as I understand, the question of supplying the raw material for the production of 7000 pounds of P. Phonol per day has been fairly well settled. I can, however, seewahat in doubt from where we have to get the different quantities and shigments, and how which cock concern has to supply per month. Incomedia as I have to constantly look out for new shigments of raw material to see that they come in at the right time, I would approclate it very much if yes would kindly lot me have the necessary information, also, if possible, with reference to the price we have to gay. In order to facilitate this matter I give hereafter a brief statement of the quantities of materials needed, taking as norsal daily production 7000 lbs. of P. Phonol, and as normal

	Per Day	POP MONTH
Benzo1	1,352 Gals., or 9,800 Lbs.	40572 Gals. or 294000 lbs.
Sulphuric soid, 98%	42,000 Lbs.	1,250,000 Lbs.
Limestone	24,500 "	735,000 Lbs.
Soda Ash	5,250 "	157,500 "
Caustic Soda	14,000 "	420,000 ".

M. KALLEMHOFF.

Tiddewayier: Porthand, Gemente Company

CEMENT LEGGGGG DBLS



GENERAL OFFICES; CALVERT BUILDING BALTIMORE, MD. WORKS: MARYLAND

Coble TIDECD! A B C. 51 EDITION.

BALTIMORE, MARYLAND, U.S.A.

Mr. Thos. A. Edison, & Edison Laboratories. West Orange, N.J.

Mr. Edison: --

January 14th, 1916

Some days ago our special lime (Checkers) and the pleasure of in-Checkers

terviewing you in connection with your prospective line requirements and requested us to forward you a five pound seamle so that our material might be investigated and testification. ed with a view to ascertaining whether or not it would be suitable for your purpose.

We are pleased to inform you that under date of the 11th inst. an average cample of our light burned lime from stock was forwarded to you by prepaid express and we would greatly appreciate your being on the lookout for its arrival and giving same investigation at your earliest convenience. Would also be pleased to have the benefit of any information you care to give us as to results obtained by you in this investigation and test.

We are in position to serve you with as much of this material for shipment in bulk, carloads as you may require throughout the year and will be glad indeed to submit you a proposition on about 90 or 100 tons per month, which is the amount our representative stated would probably be needed by you.

Thanking you in advance for your

kind attention, we are.

Yours very truly

ELB-AHS

Jan. 16th. 1916.

ar. J. H. Plummer, Prosident,
Dominion Iron & Etecl Company,
Toronto, Ontario, Canada.

Dear Mr. Plummer:

Your fevor of the 4th instant in regard to Coluct the received in due course of tail, but I tet unable to enser it by sending you a quotation of price at te and tone negotiations on hand. It was uncertain as to relation there tould go through or not, so I have varied until tan time and come to decide the externew, another. The parties with them I have been negotiating here availed themselves of the option and have taken all the Coluci I can supply for a year from lay on.

doing vory much better in repert to the timenst of Bennel, and I want to thank you for your kind attention in the matter. There cro not vive empty eart on the two beach to the matter. There are one or two empty eart on the two beach to them, and I hope they full get there on the two beach to the two places are also much to the one out that the titled and is some of the full count of the one out that the titled and is some of the full count of the count of

tome .uthorities, I am point to that the include the that the include that the interior of taking that you will fested instructions to your people to be very carefullations the involcing so that an endoor meant is made on the e-musler involce of the market value in Canada. I think periods the circular involce to the market value in Canada. I think periods the value of the scale to the careful value in Canada. I think periods to the value of th

Strenge & Hoppen, the How York lewyers the fought through the United States department's respirationant hore for me, and wen too case, wrote to me stating they and learned that your Corners sold Henzel in Cannels to A company contract in the manufacture of explosives at a contract price of 60¢ per gullon to hold good during the continuation of the arr. If this is so, this of course establishess market value in Canada unless you should call Bonzel at a higher price to seneme elec in Canada.

By to way, if you are not doing anything with your Maphthaline, I shall be glad to have a talk with you about it the

rugo tho-

next time you make , trip to new York. We are refining ours and getting a nice wrice for it.

Yours very truly,

COPY.

F. .. MYERS & COMPANY.

houses Point, Jan. 11th. 1916.

ir. Thomas A. Edison, Orange, A. J.

Sir:

no are in received from from the John Lutter of the Lutter of the John Lutter of the John

Our Mr. J. A. Myer, colled at the office of the Bostmon Iron & Steel Co. at control jostordic, but unfortunately Mr. Ashaupaton, the General Cales agent, was a titume, but I. McCourt stated that from the best of his information, the company had not cold Seniol for concumption in Cende, and he are presided to tale the matter up with Mr. McManghaton upon his return, and to advise me definitely on this tubject.

If there ind been no sales of Bennel in Canada, no market value suct socia et a liched, therefore in arriving at a price at which we should invoke the Bennel, we chould take the solling price in der York, after making proper deductions in order to get the mill not price at Myeney.

future shipmost to you, that they be particular to endorse on the invoice the market value in Leands, if such exists, if not, the price at thich they are colling Boncol in the Suites States so that we say be in a position to determine the proper throughput processing the property of th

1 min you would write to the Contains Iron & cted Co. At young and inproce apon trea the importance of invoicing your chimment or above outlined, so that we may have full intermetion as to market conditions and know at what price we should enter the Bensol, and thus good possible chance of an advance in value by the Local appraisor.

Yours vory truly,

(signed) John ... llyers.

howas A. Edison.

Orange, W. J.

Pear Sir: -

J. June Cour file "" Jacque Chen C. N. T. 110 "" Jacque Chen C. N. T. 110 " N. I have just been notified by our Mr.

renter, Jr., acting as agent for the F. I. du Pont de forques Co., that he has entered into contract with you for the output of your Toluch plant at Johnstown, Penna., for the period from May 1st, 1916 to December 31st, 1916, at a minimum rate of 30 drums per month of 100 gal. each capacity, it being further understood that should your output exceed this quantity that will be delivered to us at the same price and terms as the nin inum quantity, less a quantity of 20 gel. per day, which I mdex stand you wish to reserve for the filling of other contracts The quality of this material is to be C.P. Toluch and the price \$3.75 per gal. fo.b. Johnstown, Penna., shipment to be made in drums furnished by the seller and to be charged for extra Xith X full credit allowed upon their return within a reasonable time.

If the foregoing is in accordance with your under standing of the transaction, a statement from you to that effect & will be sufficient to constitute a contract.

I would further request that if you have any additional supplies of Toluol, Benzol or Solvent Maphtha that you draw the same to our attention. vours very truly, U.R. 7

Purchasing Agent

JEW/FE

Jan. 17th. 1916.

Mr. A. H. woodward, Shairman, koodward Iron Commany, Woodward, Ala.

Deer Mr. woodward:

I have received your favor of the lith instant in regard to the percentage of Coluch recovered by the Tencessee Company at its Flant at Pairfield. Lot me say in reply that the quantity of Coluch recovered depends largely upon the kind of coal carbonized. At our plant at the Cambria Steel Lorks, Johnstown, Pa. we obtain 16% of Coluch with the same kind of apparatus that we use at condward. It is easier there to get the Coluch than to get Benzel.

The whole trouble at sodward is that the percentuge of voluel does not soom to be in the gas, and that may be due to either the coal or to the evens.

with kind regards, I remain,

Yours very truly,

Ferm 323, 140-16, 134

ANILINE DIVISION THOMAS A. EDISON

The state of the s

Mr. W. H. Fendowcroft.

Laboratory.

Pear I'r. Meadowcroft:-

The Edison Chemical Works have, of late, been calling on us weekly, under what they term a "blanket order", for various amounts of caustic sods, and we delivered to them on Dec. 31st, 10 drums, Jan. 5th, 10 drums, Jan. 12th, 15 drums, and Jan. 17th, 10 drums. I was advised by Er. Filler that he contemplated making a contract for the delivery of a car load of caustic soda per month, end inquired to know if we could supply them. This, I told him, would be impossible, and informed Mr. Miller that he should take the subject up with you, and I presume he has done so.

I wish you would instruct me as early as possible whether I shall continue to deliver weekly amounts of caustic sode to the Chemical Works as has been done heretofore, and what Fr. Miller's

requirements are likely to be. V. micari

Silver Lake, N. J., January 17th, 1916.

27.18

74.80

Mr . Meadoworoft.

Re: CMARGE OF BADGER PHEROL VACUUM STILL.

I have gone over the items contained in my report dated Oct.

1st, 1915, once more carefully, and get the following results: The coppor pipe serving now in clase of the column and decided, motor cost, according to bill received from Lawrence 4 Company, 931.20

Another bill from Lawrence for material and labor amounts to For a bronze gasting and for three gate valves, we spent, according

For a bronze easting, and for three gate valves, we apent, according the laboratory to bill from the according factor July Sist, 1915,

Total amount 380.51
This is J16.40 more than stated in my lottor of October 1st. 1915, the

This is ,10.40 more than stated in my lotter of October 1st, 1915, the difference being due to the fact that at that time my statement was partly founded on calculations.

Mr Edward Is of all right i ari thes! Theorems In my letter of October lat is stated furthermore, that for the change of our Badger still a condemning coil is used, this coil being taken from the still in Kr. Edison's Phonel Plant. This condenser consists of a 3-inch pipe of 12 ft. longth, which would cost at the present market price for corper, about 30.00, including copper tank. If you will add the cost for this condensing coil to the expenses montioned above you get a total assumt for changing coil to the expenses montioned above you get a total assumt for changing or our Badger still of Wilo.51.

There is no doubt that we did not spend more for the change of this still than is here stated.

I do not know the reason why more material and money has been spont to change the Badger still in Mr. Edison's plant, as I have never soon that still.

м. каппериоте Л.П.

VESTERN UNION NIGHT ETTER

Carbolie

Jan. 18th. 1916.

E. I. Du Pont de Hemours & Co., "ilmington, Dol.

attention of Er. J. E. Bilec, Purchasing agent.

Year file "H".

Sear Fir:

We have received your favor of the lith instant in regard to the Toluch from our Plant at Johnstonn, Re., as to which ar. Adison entered into contract with you through your Pr. o. T. Curjenter, Jr. s few days ago.

we tore just on the point of sending dorn to you a control which we had 1 popured to cover this transcripe. This control this prepared on in. Editon's understanding that the period to be covered the one year from inly lat. 1916. If this is incorrect, according to are targenter's understanding, to are of the contract.

Yours very truly,

assistant to Mr. Edison.

Enclosures.

Standard Essence Company,

15000 minite

EUGENE SCHAEFER PROJECTATE
EDWIN W PRESTON, SICKA SMAN

_ Haywood New Joises, January 18, 1916.

Edison Storage Battery Company,

Crange, New Jersey.

Gentlemen:

Attention of Mr. Meadowcroft.

As we did not receive this morning the invoice covering shipment of five or ten drums of Nitro Benzol, we are uncertain whether you have entered us for the larger amount. We write now that you may be able to take the matter under consideration and we will telephone you tomorrow morning about ten o'clock for your reply.

We would also be glad to have you consider entering us for any quantity up to 50,000 pounds, and if you can book the order at what rate deliveries can be made.

Yours truly,

ANDARD ESSENCE COMPANY,

EWP..LP

-

6 m bulio

Jan. 19th. 1916.

The J. .. . stking Medical Co.,

.inone, Minnerota.

Gentlemen:

Tour tologram stating you accost contract for Crystal Carbolic metd to the extent of three hundred (300, pound, per month from myril let to December wise, 1916 was received. to have prejured a contract in accordance thereith, and employed the came in duplicate, stemed by Ar. Edicon.

Le would call your special attention to the foot that ir. Edicon does not with to give an absolute generates that the Carbolic hold will comply strictly with all the V. J. P. requirements. He bolieves, honever, that the quality is fully exhall to the J. P. te are supplying it resulvely to the Eoyden Chemical works, E. R. Squibbe & font, Homento Chemical works and others, and they are ill plad to got it.

the tre fortarding by this mail, under so-wrate cover, the think of the material tuch as to are supplying. You can defor signing the contract until you receive this sample and see thether or not it will encour your requirements.

Yours very truly,

. Edison Laboratory.

Enclosure.

LEPHONE HANDVER 6663 A. D. MACKAY

INDUSTRIAL AND RARE MINERALS AND METALS RARE CHEMICALS

> 130 PEARL STREET JAN 19 1916

W. H. Meadow croft cog Osauge n. J

6632

Draw Mr. Meadowcroft Town of the 15 the Sand on Som a trip upin the wilds of Dunken & Swith are taking care of me in the matter of broker are on to look that you man badvance the spice I doubt if it will show much of an advance if act, butter reconstider this as author Concern Coming on the marke I am wondering if you could take my friend Mr Williams on for boeal au yr Record Reph he is a fine juger and a good man. W. Edison I him Riles the Other night at House of Ohio Bacquet Loould reatly beforeciate acry Possidoration care girt this matter Forest mely

Padmaekay

duline

EXECUTIVE OFFICE

NEW YORK

January 19, 1916.

Mr. Thomas A. Edison, Thomas A. Edison Company, Orange, New Jersey.

Dear Mr. Edison:

We should like to take up the manufacture of Aniline Cil as a starting point for Aniline Dyes.

Would you be willing to give us your process of manufacture and if so on what terms?

We are of course also interested in Benzol, so if we could procure this product also through you it would be most satisfactory to us.

Awaiting your good news, we remain,

Very truly yours,

Vice President,

TW-ECH

E.R.SQUIBB & SONS. We would sellyou a set of drawings

but where are you going to acids, + Benjal-

amilion

January 21st. 1916.

Mr. Miller:

we have a contract with Mendel Lamuel & Some for 1800 tone of Cast Iron Borings for the uniline Plant, to be delivered 100 tons per month, January to becember 1916. These people have offered several deliveries but we refused them because they were not in accordance with sample upon which we made the contract. We have boon having quite a fusc with them, and Mr. Edison thought that the matter would become involved in a lawcuit, but Mr. Samuel has been in today and we have thrashed the matter out. Mr. Edison has agreed to cancel the contract, and ..endel Camuol & Cons have agreed to pay \$3720, to get a release from the contract. Here is a check for the first payment of \$500, and they promise to send the remainder of it in the near future.

L. H. HEADOWCROFT.

Let we know what you to pay for 10000 Gaes. Buyor June 10 distillation - Ithin - When wire be a chance to lung in a few days. wed our surselves befor my loing-The wice instace the new kettle to morow - I quese you thing it has been a long twie Ogetting it in but this is not the says place is was last year Every body of Every departient is so busy they clou's know while way tune I it is a job getting any thing do Cende The are having a vice rew of c Bacar

LUNHAM & MOORE

EXPORT FREIGHT BROKERS
FORWARDERS—THROUGH HATES
THROUGH BILLE OF LADING
MARINE AND FIRE INSTRANCE
BILLS OF EXCHANGE BUUGHT AND SOLD
BRAFTS RECOTIATED AND COLLECTED
LIGHTERRAGE—CARTAGE
CUSTOMS ENTRIES



MUBEERS
N. Y. PRODUCE EXCHANGE
N. Y. MARITIME EXCHANGE
CABLE ADDRESS "LUNHAM"
NEW YORK AND LONGON
WESTERN UNION; LIEBER'S; A. S.

FAST FREIGHT FOR EXPORT SHIPMENTS

PRODUCE EXCHANGE

New York, Jan. 21, 1916.

The Thos. A. Edison Co.,

day do not an experience

Hew Jersey. Can't GE Exploded -

Gentlemen:

we are in receipt of your favor of the 20th Inst., advising us that we will receive a shipment of Paraphenylenediamine to be forwarded to the Lezard-Godchaux Co., Ltd., London.

Will you please advise us what the character of this material is? Is it in any way combustible or inflammable? If so, at what degree (able close test) inflame.

Our reason for making this inquiry is that the Steamship Company will not accept anything of a dangerous nature for transportation by their steamers.

WAH In Columnia or of the column of the colu

LONDON OFFICE, 3 GREAT SAINT HELENS. GRAIN HANDLING BRANCH — BUFFALO, N. Y. ask me Monday of Yue Beec if it

Jan. 24n . 1946.

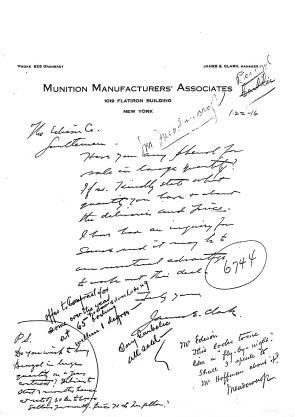
hr. Thoudore weicher, Vice Prosident, E. A. Squibb & Sone, 78 Bookgan Street, New York City.

Dear Er. Weicker:

1 am in receipt of your favor of the 19th instant in regard to your taking up the manafacture of amiline fill as a starting point for amiliae type.

I should be willing to sell you a set of drunings for a plant for manufacturing smiline as we do it, but where are you going to get the acids and the lement! If you have not provided for those supplies, I am siraid you will key a nerd time of it.

Tours very truly,



CABLE ADDRESS, "BADGERCO"

ESTABLISHED IN 1841

E.B. Badger &

CONSTRUCTORS OF CHEMICAL APPARATUS OF COPPER, IRON, SILVER AND LEAD

DISTILLING AND RECTIFYING APPARATUS EVAPORATORS AND EXTRACTORS ORYERS, TANKS, KETTLES, COILS, ETC

63 - 75 PITTS STREET

BOSTON, MASS.

PLANTS AND APPARATUS FOR CHEMICAL INQUSTRIES COPPER EXPANSION JOINTS

Jan. 22, 1916.

Laboratory of Thomas A. Edison,

Orange, New Jersey.

Gentlemen:

We acknowledge receipt of your letter of the 19th inst. regarding expenditures on Carbolio Still.

We would appreciate receiving your report the continued of conditions which necessitated these changes and which would give us more detailed information of what these changes consisted of. This information would be of considerable assistance to us in arriving at our conclusions regarding these charges.

Trusting you can conveniently favor us with this data, we remain

Yours very truly,

E. B. BADGER & SONS COMPANY.

CHC-C



1897

P. HOPP. PATENT Nos. [1119161

191 6 New York, Jun. 22,

Edison Chemical Co.,

Silverlake, N. J.

Gentlemen:

Will you kindly inform me , if it will be possible to purchase sodium phenolate from you and if so, the quality and composition of the intermediate for sale.

Hoping for an early reply, I remain

Jan. 14th. 1916.

Lunham & Moore, Produce Exchange, Now York City.

Gentlomen:

heplying to your fevor of the Elet instant in regard to the chisment of Parapheny-lonodismine to be forwarded to the Learn-God-cheux Co., Ltd. London, we begt to advise that this reterial is not explosive, and gs no more inflammable than oak wood. It is not regarded in any way as a dangerous material for transportation.

Yours wory truly,

Edison Laboratory.

WESTERN UNION

January 24th. 1916.

Jhhn Bacon, Jr., % Edison Benzol Plant, Johnstown, Pa.

SEND the following Telegram, subject to the terms on back bereof, which are bereby ogreed to

Replying your letter to Mason, Mr. Edison says he offers Cembria Company same price as before, namely sixty-four cents gallon for 10,000 gallons C. P. Benzol.

W. H. MEADOWCROFT.

4044

SELVIDERE BROOKS, VI

J. MERRITT MATTHEWS, PH. D. ULTING CHEMIST TO THE TEXTILE INDUSTRIES CHEMISTS BUILDING SO CAST 4141 STREET NEW YORK

Thomas A. Edison, Inc., Andrew Paragehenglensotiamine Orange, N. J.

Gontlemen:-

9 donot know of Jany Grady of Dehoth of Hantford

Various tertile organizations, with which have been the associated in support of the Hill Bill to place a terriff on dyes so as to encourage their manufacture in this country, find their activities for somewhat emberrassed by a recontly issued report of Dr. Horton of the manufacture in the country find their activities for Department of Commerce. Dr. Horton states that there are now being Acce. Department of Commerce. Dr. Morton states that there are now being manufactured in this country 15,000 tons of coal-tar dysetuffs out of manufactured in this country 15,000 tons. This report has been given a total normal consumption or 29,000 tons. This report has been given wide publicity in the newspapers and journals and gives the impression that large dystuff plants making a wide range of coal-tar colors have been not in solud operation during the past year and are already supplied to the solud operation during the past year and are already supplying over one-half of the needed smount of dyes in this country. It has end of his report br. Norton expresses the opinion country, practically all of our needed dyestuffs will be made on the following the country, presents are reported in this country, presents are the present that of continuous country is the country of the coun

a proper tariff proteotion for the dysetuff industry here, and feeling that you will agree with me that Dr. Norton's streaments are energy experienced and misleading, I me making you to help I me nort to the various tartile association and the land of the matter; as that they can be seen as the second of the matter; as that they can be seen as the second of the production in this causing the forest the Government and the People.

To this end I would ask you to kindly furnish me with a list of the dyestuffs you are at present manufacturing together with quantities of the same. In case you consider it inexpedient to furnish me with this detailed information, I would appreciate it even if you would furnish me with the different classes of dyes you are actually mentiacturing together with aggregate amounts of the same. Any information in this line which you will furnish will be held absolutely confition in this line which you will furnish will be held absolutely confidential, as in my report only the total quantities of different classes of dyestuffs will be presented.

Trusting that you will recognize it to be to your best interests to cooperate with me in this matter and awaiting your prompt reply, I am,

J.m. matchengy

JMM: RGT

Jan. 25th. 1916.

Standard Essence Company, a corporation having its place of business timeyrood, J. J., hereby jurchaster, and farrous to receive from Thomas A. .dison, and the said thomas A. dison herby sells to entitle the said the

To be of good standard quality. J.LITY.

U.BRICK. To be fifty thousand (50,000) pounds during the five (b) months beginning February let

and ending June Soth. 1916.

PRICE.

To be thirty (50) cents for pound, . 0. 8. Silver lake, i. 1.; drums extra at 10.00 onch, to be credited if returned in good condition, freight projetd, within cixty (60) days from date of original chipment.

To be made and taken in equal monthly ship-ments, commoneing February, 1916 and ending Jun., 1916. DELIVERIES.

Thirty (30) days, or loss by within ton days from date of each chirment, payable in New York City funds, in United States sold or its equivalent in United States currency. COMME.

compitions. In the event of par, fire, flood, strike, lockout, accident, or other like causes be-gond the control of said Edison, interfering with the production, transportation or consumption of the goods herein described, deliveries under this contract may be surpended during the period required to remove the cause and repair the damage.

(signed) Thos. A.Edison.

..ccepted.

Standard Essence Company, (signed) Edwin .. Preston. Freasurer & Secretary.

Jan. E6th. 1916.

2. 3. Badgers & Sons Co., 75 Fitts Street, Boston, Mass.

Gentlemen:

I am in receipt of your favor of the EEnd instant regarding our expenditures on the two Carbolic itills at Silver Lake.

I am very busy indeed, and it would take quite sometime for me to draft out a report of the conditions which necessited the changes. As you have an Engineer who travels about the country, I think it would be better to have him come over to our flant and check up these statements that we have submitted.

will you kindly have him report to me, or to Mr. Headowcroft when he comec. Yours wory truly.

Jan. 26th. 1916.

Mr. James B. Clark, Munition Manufacturers' Associates, 1019 Flatiron Building, Now York City.

Dear Sir:

Replying to your fevor of the SEnd instant, we regret to say that we cannot make you any offers on Phonol, as we are contracted up for the procent year.

We are in the market for come Bennel for regular delivory over the remainder of this year, for thick we could pay 65¢ ler gallon, F.O.B... Silver lake, B. J. The Bensel, however, must be C. P., belling within 1°. What can you offer on this besis?

Yours very truly, Edison Laboratory.

E.R. SQUIBB & SONS, NEW YORK

678 Jacobine

EXECUTIVE OFFICE

January 26, 1916.

Dr. Tromas A. Edison, Explain that we have and our extensions. Eiters output for 19th and

you for the tenor of the same an 4xhort the bull the

You have put your finger on the sore spot when you ask us whether we have provided for Acids and Bencol. It has occurred to be that willing to a supply us with Amiline Oil at a price mich would make it unattractive to provide for a manufacturing plant.

We treval

May we therefore ask you whether you would book for us a contract over 1916, calling for 40,000 to 60,000 pounds of Aniline 0il per monta.

Michelanies .

If you are in a position to do this we should be very glad to hear from you.

Awaiting your good news, I remain,

Very truly you

Vice President,

TW-ECH

E.R.SQUIER & SONS.

Dominian Iran & Steel Company softwore 684 Super Production of the Steel of Steel of

January 25th, 1916.

on, Bog.. Ask for a 10 kbs average orange.

Orango, H. J. Deenuple be can't by

Referring to your letter of the 19th T. A. Edison, Erg.,

We can tast the sir:-Referring to your letter of the 17th Jamuery to Mr. J. H. Plummer, and particularly to the Thet paragraph dealing with the question of Haphthalenc.

I would like to say in reply to your enquiry that we are producing this material in the form of pry Orudo Haphthalene, being dried in a centrifugal drier.

At the present time se have roughly 100 tons of this product on hand packed in bags and if you are interested we would be very pleased to hear from you as to what figure you could offer us for the same.

Yours faithfully,

Jan. 27th. 1916.

Mr. George Hopp, % Bronx Lindow Shade and Awning Co., 372 Ract 162nd Street, New York City.

Dear Sir:

Your fever of the EEnd instant has been referred to Dr. Edison, and he requests us to say that we have weak fedium ilenolate, 10 to 11% solution, containing free sode and Sodium Salphito and Sulphate. He requests us to sak whether this would cuit your yarpose, and what quantity you would probably desire to obtain.

Yours very truly, Edison Laboratory.

Jan. 17th. 1916.

Dr. J. Herritt Matthews, 50 East 41st Street, New York City.

Dear Sir:

heglying to your favor of the 2ath inctunt, lot me may that I make no dyo stuff, oxcept Aniline Oil, aniline Salt and fure; henrylenedsemine. I do not know of anylae eloopt the Bocker Commical Company and Scholkopf. Hartford and Hanne, who make type.

Yours very trul;

NEVADA AGRICULTURAL

DEPARTMENT OF CHEMISTRY C.A. JACOBSON, PH.D. AUGUST HOLMES, A.B.

UNIVERSITY OF NEVADA RENO, NEVADA, U. S. A.

Dr. Thomas A. Edison.

radically different West Orang

Dear Dr.Edison:

from your sleheme

Under separate cover I am sending you a reprint of my article in this month's Journal for Ind. Eng. Chemistry on the need of a large government institution for chemical research. Your attention may already have been called to it, but if not, I should like to have you read it.if you can find time to do so. I have tried to emphasize the nced of organized chemical research as the basis for military and industrial preparedness for war, and I am wondering whether you have not arrived at some similar conclusion.

Our most effective materials to-day may be antiquated tomorrow, and if we are to prevail against a first class foc, whose chemical industries are twenty five years in advance of ours, it is of prime importance that we lay the proper foundation for these industries at once. The five million dollar experimental laboratory, recommended by your board, would be an exceedingly necessary adjunct to the present nayal equipment, but it seems to me we should pursue systematic research in all the main branches of chemistry.

I have already received a large number of letters, from various parts of the country, commending the plan, and these have led mc to suggest the following: To obtain briefly stated opinions from twenty five or thirty of the leading men of the nation, upon the feasibility of my plan and have them published in SCIENCE. Would you consent to send mc your opinion for that purpose? I would like to call your attention to an error in the paper: Department 47 should be sterines and not stearines. With profound admiration for your scientific achievements, I am

Sincerely your

MUNITION MANUFACTURERS' ASSOCIATES

1019 FLATIRON BUILDING

NEW YORK January 27, 1916.

Mr. Thomas A. Edison, Orange, N. J.

Dear Sir:-

The subject of Bankol, I reget that I cannot supply you with Benzol at 65% a guillon, The price is 70% today. I also beg tolarform you that some of the output has been contracted for. If you are willing to pay 70% per gallon, that is also beg to the me and I will see what I can do for you.

Awaiting your pleasure, I am

Very truly yours,

James E. Clark

P. S. Have you any use for Aniline Oil? I have been offered 60,000 gallone on a year's contract, 5,000 gallone per month. 98% pure. Price 55s.

I was offered yeeterday a carload of Sulphuric Acid, 66°. Now in a tank in New York. Price \$80.00 a ton. In carboys \$85.00 a ton.

Jan. 18th. 1916.

Mr. Theodore Woicker, V. Pres., E. A. Squibb & Sons, New York City.

My dear Br. Seicker:

I am in receipt of your favor of the 26th inctent, and repret to say that I shall be unable to contract with you for amiline oil, as we have cold our entire output for 1916, and have only enough acids to pull through nicely. Some of these acids I have only been able to obtain by puying exceptions.

kogretting that I cannot help you

out, I remain,

Yours very truly,

(autobic

THE HEYDEN CHEMICAL WORKS.

PACTORY AT GARPHELD, N.J. CHICAGO OFFICE 230 WEST RANDOLPH ST.

135 WILLIAM STREET.

теленномещоня 116 CARLE ADDRESS
HEYDEN, NEW YORK.

NEW YORK. Jan. 31, 1916.

Jay will see huntater about this -

Mr. Thomae A. Edison, Orange, N.J.

beller energous house

Dear Sir: -

We should greatly appreciate a statement from you when you will begin to make to us deliveries of Carbolic Acid to the full extent of our contract with you dased April 27, 1915. This contract calle for 1000 pounds per day, and deliveries at that rate should have been made against it already last summer.

Ae your new Carbolio Aoid factory is now running, we hope you will eee your way clear to give ue from now on the quantity due as per agreement.

Very truly yours,

THE HEYDRII CHEMICAL WORKS.

G8/K.

Minh V. prest.

littsburgh Plate Glass Company Friek Bulling

Pittsburgh, Pal January 31st, 1916.

Hitcherok-Kout quite Calob the

Mr. Thos. A. Edison. Orange, N.J.

My dear Mr. Edison.

your aleron Soda works must lberry away Every day Seo Tons of Calcium Chloride

I have taken the matter up with Mr. Clause, President of the Columbia Chemical Company, in reference to the cloride of calcium, and find the Carbondale Calcium Company have contracted for all the calcium carbide which the Columbia Chemical are making, and they are at the present time behind on their orders for this material. I think, however, the Carbondale Company resell this calcium cloride, and if you write them, they can probably give you a price on the material.

Had I taken the matter up with others in the office, I could have given you the information earlier, but I was under the same impression you were, that this by-product was made in excess of the amount which found a ready market.

> With best regards, I beg to remain Yours traly /

6900

Wordward

Ur. Edicon:

The figures from moodward and Johnstown, are as follows: From beginning to January Slat, 1916.

LOOD; AnD.

Benzol Toluol	2HIFHERTS 16,326 16,326	7,022 6,600 400	164,778 22,926 10,856
Solvent Esphtha	1,436	400	10,000

JOHUSTOWN.

	SHIPMENTS	STOCK OH H.IID	73.110
Bonzol C.P.	68,452	4,658 8,115	21,546
" 90% Coluol	16,391 28,672	4,316	32,928 34,62
Colvent Haphtha	33,380	1.182	54,000

BLEOURIC MOTORS

All Motors 230 Volts - Direct Current.

	lio. of				Rovol.	Baok (Diract Con-	
Operation No. Name	Usod	н. Р.	Typo	Manufacturer	Hinute	Goared :	nooted Romarks	
1. Sulphonation	12	1	C -2I-	Crocker-:/hoole	er 780	6 to 1 B	olt Drivon	
2. Limina	5	2	с.о.н.	" "	1625		ear Drivon	
3. Filter Presse	28 4	3	о.м.		1060	Flexible	mnocted to pump; coupling. on Contrifugal 540168-W.	
3. Filter Pross	20. 4	2	0.24.	" "	1700	Direct to	famili	
4. Decomposition	g 2	2	0.0.11.		1625	6 to 1	Goor Drivon	
4. <u>Pumps</u> Pumping into	1	2	C-11-	" "	1700		nnooted to gton Pump.	
4. Pumps Fumping from	1	2	0.11.	" "	1700	Diroct Cor Worthingto	meeted to on Pump No. 123393	
5. Concentratio	n z	1	G.M.		1200	Biroot Con Worthingto	nnocted to on rump No. 540170	
6. Crushing Sal	<u>t</u> 1	5	Shunt Wound	General Slect	rio 1150		Belt Drive	
7. Fusing	. 6	3	220 Vol	t Sprague	1250	6 to 1	Goar Drivo	
8-A Crushing Cak	<u>e</u> 1	5	220 Vol	t Goneral Elec	tric 375		Bolt Drivon	
9. Koutraligati	on 4	3	P. T.	Sprague	1250	_6 to 1	Gear Drivon	
9-A Settling of Grudo Phonol	1	1	220 Vo.1	t Crooker-who	eler 1200	Direct Conthing	onnooted to ton lump 586182-W	
10. Distilling of P. Phonol	£ 1	1	0. M. 200 Vol	t Crocker-Who	oler 1200	Direct o	onnected to ton 'ump 536176-W	

Edison General File Series 1916. Chemicals (E-16-16) February AGREENBUT

Between

DOMINION IRON AND STELL COMPANY LIMITED

and

THOMAS A. EDISON

Dated:-

MIMORAHDMS OF AGREMENT in respect to make purchase of borsol, made this let day of February, 1916, between POMINION IRON AND STEEL COMPANY, LIMITED, of Sydney, Neva Scotia, hereinafter called the Seller, and THOMAS A. POLICH, of West Grance, New Jorsey, hereinafter called the Buyer.

100 11 - 15

This agreement cancels and supersedes previously existing agreements and centracts between the parties hereto in so far as they relate to the sale and purchase of hersel, but nothing herein shall be held to abrogate the agreements and undertakings of the parties hereto in respect to plans to be furnished and services to be rendered by Thomas A. Edison, or the consideration to be received therefor by Thomas A. Edison.

The Seller agrees to sell and the Bayer agrees to buy 220,000 inited States gallons C.P. bound at a price of twenty-five cents (25%) per inited States gallon, to be shipped at the rate of 20,000 gallons per menth during each and every menth from February, 1916 to December, 1916, both inclusive.

In addition to the aforesaid 220,000 gallons of bennel, the Seller agrees to cell and the Buyer agrees to buy 65,000 United States gallons C.F. bennel at a price of fifty-nine cents (59%) per United States gallon, to be shipped at the rate of 5000 gallons per menth during each and every menth of the period from Pebruary, 1915 to December, 1915, both inclusive.

It is mutually understood and agreed that if for any reason the Soller shall fail to supply the entire 275,000 gallons of borzel hereinbefore agreed to be supplied, the Buyer shall not be charged more than twenty-five cents (25%) per united States gallon for such benzel up to 220,000 mallons thereof.

The Sellor furthermore agrees to sell and hereby cives to the Bayer the option of purchaoing G.P. bencel at a price of twenty-five cents (25%) per United States railon not to exceed 20,000 United States railons per month during much and every month from Jenuary, 1917 to June, 1918, both inclusive, or such portions thereof as the Bayer chall creder; provided, however, that the Bayer shall be required to cive to the delicit three months notice in savance of the Bayer's requirements for such three months portiol of the period from January, 1917 to June, 1918, both inclusive.

All shipmonts of bonsol hereunder shall be from the Selier's works at Sydnoy, N.S., in tank care to be furnished by the Duyer and shall be consigned to the Buyer at Orange, New Jersey, or elsewhere in the United States as the Buyer may direct, Buyer to pay freight and duty.

In the event of sufficient tenk cars not being supplied in any one ment to take ours of the monthly quota, the Buyer has the right to furnish and the Sollor has the right to insist on the Buyer furnishing additional tank cars to emable the Sellor to make up the chortage in the ment following such short shipment. Should it so happen that it is found impossible to furnish additional curs in the month following the short shipment to make up such shortage, the contract period for shipment of such shortupe may be extended

for a period to be mutually agreed upon to vermit of the shortage being taken care of. It shall, however, not be incumbent on the Seller to make up any such shortage caused by the Buyer failing to furnish tank cars sufficient to tuke care of any monthly quota not later than the month following the short shipment.

The Buyer agrees to make payment to the Seller for all bensel shipped as aforemed within thirty days from date of invoice. Shippers weight measurement and cause to severn.

Beliveries may be suspended pending any continconcine beyond the central of the Seller or Buyer (such as fire, accident, war, strike, look-out, dissator or interruption in navigation or transportation, insbility to obtain ears, or the like) causing a short supply of labor, fuel, cars, raw material, or manufectured product, and preventing or hindoring the manufacture, delivery, acceptance or consumption of the material covered by this contract.

If the buyer makes default in any payment or is adjudicated a bankrupt or bosomes insolvent, the Seller may at its own option cancel further deliveries.

IN WINDERS WHEREOF, the parties heroto have executed this agreement the day and year first above written.

	Ву	
itness:		

DOMINION IRON AND STEVE COMPANY, LIMITED

Controlic Phone My Lon That he is pecalinely necking large quant. by Rulphonading too hat Halving it hat lawards the End is not so bas

Benzol to be supplied to Edward weder the Contract at 25 conto 118 gal -Freightadelij to be paid lay Excern on delivery 20000 gale monthly to 62 delicered to Edwar while old Contract Edward to necke our artitional Contract to take 5000 galo monthly ogradational per mouth or 10 coo of the Steel Co can supply it stouting in February or Couldnum to Dec 31 1916 - | The princes to GE paud Ey Edwarfor This Pacyal is Top ecut, at will - Edwar pary descripted detty to Concurred intereses to the Receiver on d

1 fe6 1816 3

Doning

Pob. 1st. 1916.

Arrangement agreed to between Mr. Edison and Mr. Plummer February 1st, 1916.

Bensel to be supplied by bominion Iron & Steel Company to Edison under the old contract, at Edf or 3. S. gallon. Proight and duty to be paid by Edison on delivery. 20,000 gallons monthly to be delivered to Edison under old contract.

Editor to make an additional contract to take from Dominion Iron & Steel Company 1,000 gallons additional per month, or 10,000 gallons if the company can supply it, etarting in February and continuing to December Eint, 1916. The price is be taid by Edicon for this additional Dominion is 59% per gallon at the Steel Company's Plant. Editor pays duty and freight to Orange. Edition to supply tank cars at regular intervals to the railroad for delivery to Transp.

Nothing herein to abrogate conditions of old contract as to the three years or the regular.

T.A.E. J.H.P.

Feb. 1st. 1916.

Dominion Iron & Steel Company, Sydney, Jova Scotia.

attention of Er. Macuaughton.

Gentlemen:

Your favor of the E6th ultime in regard to Haphthaline has been received. If you will kindly send by express a ten pound average sample, I will test it, and see if so can make anything out of it.

rlesso address this sample to my assistant, Mr. W. H. Moadoweroft, at this address.

Yours very truly.

NEW YORK OFFICE AND SALESHOOM: 199 FULTON STREET.

GENERAL OFFICES AND SALESROOM: IOS HUDSON ST. JERSEY CITKNIA.

CENTRAL TELEPHONE STATION: "8840 CORTLANOT NEW YORK. GRAND PRIX, PARIS,1900

Colgate & Company

FOREIGN DEPOTS: LONGON, PARIS, BERLIK, VIENNA, SYDNEY, MONTHEAL, CAIRO, YOKONAMA, NONGKONG, CALCUTTA, MILENIS AIRES, RIO DE JAMEIRO.

CADLE ADDRESS:
"CASHMERE" HEW YORK.
ALL CODES.

Makers&Borfumers New Uork;

M

Mr. Thomae A. Edison, West Orange, New Jersey.

My Dear Mr. Edison:

I have asked our Superintendent, Mr. D. W. Taylor, to write in full our process for filtration of mud lims. I trust that it will give you the information required.

There are better methods than the one which we are
now using, but rather than take out all of our present plant,
we consider it advisable to continue its use for some little
time to come.

If there is any other information you desire or if you would like to send comeone from your factory to inspect our method, placed let me know.

Yours very truly,

Richann agat

R.M.C./J Enclooure.

February 1st, 1916.

ur. Richard M. Colgate:

caustic lime, we let the Man Lime ostic, remove the Caustic Soda solution from above, wash the med lime ostic, remove the Caustic Soda solution from above, wash the med lime once in same tank with water, removing the wesh water from above the med lime. The med lime in then mixed with moneyh water to make it in a condition fit to pump, then pumped to filtering tanks.

bottom of which is a screen, on top of the screen is gravel and on top of the gravel a heavy wire screen, on top of this a fitte brane screen and on top of this a fitte brane screen and on top of this a heavy perforated from plate. In the bottom of the tank are played run to other tanks for saving the wash water. This bottom pipe is also when the commoded to a vecum pump for heatening the machine process; by much that

After the mud lime is pumped in these tanks it is washed with water. The remaining mud lime contains about 1.75% free lime Cao and less than 1% of alkali RagCO3, and from 30% to 40% water.

We do not consider this method the best if erecting a new plant. If the line can be used in any way, it would cortainly pay to use a filter press.

If we were to erect a new cauticizing plant we would investigate very carefully the process developed by the Dorr Cyanide Eachinery Co., 17 Battery Place, N.Y.City.

D. W. Taylor.

Carbilic



GENERAL OFFICES 78 & 80 BEEKNAN STREET, NEW YORK CITY. CHEMICAL & PHARMACEUTICAL LABORATORIES, BROOKLYN, N.Y. E. R. SQUIBB & SONS

RESEARCH & BIOLOGICAL LABORATORIES, NEW BRUNSWICK, N., L.

ALL COMMUNICATIONS SHOULD BE ADDRESSED TO E. R. SQUIBB & SONS, GENERAL OFFICES, NEW YORK.

NEW YORK, February 1, 1915,

Meddocreft day

Mr. Homas Meadowcraft, Seoty, Return at our
Thomas A. Bilson, Orange, N. J.

Dear Sir:

We have on hand

We have on hand some of your acid a they could get which is discolored -- one drum of about 250 monds, 8 monds of 25 younds each, 10 time of the funest planning of the pounds each and 8 time of 5 pounds each -- the funest planning in all 465 younds. We would like to return this to you for exchange for white acid.

Will you please let us know whether made, This well to appearal you wish us to return it to you in the above packing?

We await your reply.

Very truly yours,

E. R. SQUEEE & SONS,

Treasurer.

HGW/FC

NEW YORK

FOUNDED 1818.

ST. LOUIS

POWERS-WEIGHTMAN-ROSENGARTEN CO.

MANUFACTURING CHEMISTS
NINTH AND PARRISH STREETS

PLEASE REFER REPLY

Dear Sirs:-

Philadelphia, February 1, 1916.

Laboratory of Thomas A. Edieon, Orange, New Jersey Day that it is against Mr 2. peolicy to give exclusive rights to any one = UR are not beek

IRON BY HYDROGH

due requipt of your favor of the 27th. ultimo

We acknowledge due require of your favor of the 27th. ultimo to which we have given our careful consideration, but due to the uncertainty of the estuation, a decision by us is rendered difficult for the reason that we are uncertain as to whicher the two floures who, from your letter we understand would while the two floures who, from your letter we understand would would not be the two floures who, it is not to the flourest would be the form of the present of the flour control of the flourest work, would consume the quantity in question in their own manufacturing work, therefore eliminating that dantity from composition on the market, or whether the two outcomes guesties from the to receil your product and if such is the case we would not better that the could handle for you any such quantity as 2,000 lps. for month. As you no doubt are quite well aware, the use of the article.

Is very much restricted and undue competition would only pring about a sharp reduction in price.

We have always distributed more or less of this particular product and we could continue to handle reasonable quantities if the situation did not develop in a way to prevent interest in the article. If you will kindly favor us with a frank statement regarding the facts, which of course will prove of mutual interest, we would be glad to hear from you.

Very truly yours,

POWERS-WEIGHTMAN-BOSENGARTEN CO.,

Secretary

B£VRH

· Carral

Fob. 2nd. 1916.

Mr. Charles E. Speirs, S. D. Van Hostrand Company, 25 Jark Placo, Hew York City.

Dear Mr. Speirs:

Till you kinely send the following books for Er. Edison to look at on approval.

Caine & Thorpe,

Synthetic Dyestuffs and Intermediate Products.

řey,

Coml Tar Colors.

Georgevics,

Chemistry of Dyestuffs.

Yours very truly,

(687³) Lain + Horpe: "Syllite Dycoloffs and Internativale Produ Fay cal Tar Colors Georgenics: "Chemistry of Discitules" Mr. Meadowroft. get these books from Van Northouse Reno for them on approval

ORIGINAL.

A. M. WOOD & CO.. INC.

Commercial Trust Bldg.,

Number S-1519

Philadelphia, February 2, 1916.

A. M. Wood & Co., Inc., of Philadelphia, agree to sell

Mr. Thomas A. Edison

agree to

Entire requirements for six months, February first to August first approximately 100 tons per month. QUANTITY. Dry clean cast iron borings, free from bras, all to pass through 7/32" mesh screen and to conform in fineness to sample submitted. MATERIAL. \$18.50 per ton for all cars which do not require shipping PRICE. \$18.50 per ton for all care which on hot legate shipp. to Lincoln, N. J. for screening \$22.00 per ton for all care requiring shipping to Lincoln, N. J. for screening. The difference in price of \$3.50 per ton to cover labor and extra freight. Less 1% for cash in 10 days. TERMS. To be shipped in box cars, swept clean before loading SHIPMENTS. to Thomas A. Edison Amiline Plant, Silver Lake, N.J. for Erie delivery. It is mutually agreed that we are to have the refusal REMARKS. on a further six months contract on account of the equipment we are installing to properly supply this material. NOTE .- Materials must be waybilled as sorap iron. Minimum car-load weight must be at least 20 gross tons, Unless otherwise instructed load in gondola cars. Original B/L must accompany all bills.

ACCEPTED (signed) Thos. A. Edison.

A. M. WOOD & CO., INC.

DATE Feb. 2, 1916

(SIGNED) A. HOFMANN. Secretary.

KINDLY DATE, SIGN AND RETURN DUPLICATE CONTRACT.

Lumbua

Feb. 3rd. 1916.

Er. John Bacon, Jr., 5. Edison Benzol Plant, Johnstonn, Pa.

Dear Sir:

after looking at your report of Peb.

let, ihr. Edison wiches no to ask you why your
output of light oil has gone down. He wishes
me to ask whother the Cambria Company are not
ooking rood coal. He also wishes me to ask whether
you know if they intend coking better coal or a
better mixture.

Yours very truly,

assistant to Mr. Edison.

FULTON STREET McKESSON & ROBBINS IMPORT DEPARTMENT Dear Sir: We have your favor of the 2nd and thank you for your offer of 1000 lbs. Crystal Carbolic Acid per day from May 1st to December 31st, 1916, at 85¢ 1b. F.O.B. Silver Lake. Let us know if you will guarantee them to answer the U.S.P. requirements throughout the period of delivery, and oblige Yours very truly, FJMcD/CR

7-5. 4th. 1015. ·

Er. H. H. Hitchcock, Conculting Engineer, Hitsburgh Phite Glass Co., Frick Saliding, Hitsburgh, Pa.

Dear Mr. Hitchcock:

I am in receipt of your favor of the tlet ultime, but did not quite each on shen you say that the Carbondele Calcium Company mave contracted for all the <u>Carbide</u> which the Columbia Chemical Company ere meling. Your Akron Bods borks must throw away every day at least too tome of Celcium Chloride.

Yours very truly,

February 4th. 1916.

Mr. Edison:

Ask Muson of to stronglen it out

Bedger called up from Boston on the telephone and said that they could not sond their engineer to Silver Lake at present to see what we did in regard to the wills.

They say that tome sort of report must have been made to you about the stills, and they would like to have a copy of it. I told them that it was an oral report.

Then they said they could not understand thy the changes for Lummerhoff's stile cost so very much loss than those at the new plant, and asked if we could not make some sort of a statement for them so that they might have a little better understanding of the matter.

If I knew anything about the technical details of these two stills, or had any knowledge of what was done and what changes were made. I would draft up some kind of report and show it to you for exproval, but as you knew, I was here all the time, and do not know the pracyled details.

that can'te do about making a report for them?

In Kamhaf Case we want the Badger Code I that k has write his still I from #2 still wheneas #2 has get new stools ? West Stillers Milson, 1.11

MITSUL& CO, LIMITED.

(. Hitsui Bussun Kuisha, Std.)

TORIO YOKOHAMA YOKOSUKA KORE OSAKA NAGASAKI MOJI NAGOYA KUCHINOTZU NIJATA

TSURUGA

WAKAMATSU HARATSU KURE SASEBO MAIZURU MURONAN AWOMORI HIYAKO SUNAGAWA

SAPPORO TAIPEH TAINAN CANTON HONG KONG NEWCHWANG CHOSHUN VLADIVOSTOR

TIELING TIENTSIN CHEFOO HANKOW SWATOW AMOY TSINGTAU PEKING GIBIP

MOUKOEN SEOUL CHEMULPO ANTOHKEN KWAHCHIHTU RANGOON SOURABAIA CALCUTTA SYONEY

LONDON HAMBURG LYON PETROORAD DALLAS SAN FRANCISCO PORTLAND BOMBAY

25. Hadison Second.

Tophene 10010 Undistri

. Soir Horle 19/ 6. February 4,

Thomas A. Edison, Inc., Orange, I. J.

Attention of r.

Dear Sir :-

He: Toluol From Your Cambria Plant,

We would like to know very much if you will authorize us to negotiate with Italian Commissioners for the sale of C.P. Toluol from your Camoria Plant, at the rate of 130 gallone per day, beginning with April, 1916 and ending on March 31, 1916.

As you know, we are working with Mr. John Sloane on a large order from Russia for Hall-Scott Motors and Sloane Aeroplanes, and at this moment we committed ourselves to the extent of 100 Hall-Scott Motors, for which we actually made the contract to buy. At present, the prospects are very bright in obtaining an order for 300 Motors and 100 Sloane Machines.

Under the circumstances, it is very important for us to keep the representative of Hall-Scott Motor Car Compan in New York, on good terms with us. Mr. Whitaker of Hardy, Stancliffe & Whitaker is the representative, and we found that his firm act as counsellors for the Italian Commissioners

Thomas A. Edison, Inc.

and if I can sell your toluol from Cambria Plant to the Italian Commissioners and give them some commission, it will place us in a very favorable position with Mr. Whiteker.

Would you be good enough to make me the following proposition:

C. P. Toluol, Barretts Specification, 4,000 to 4,500 gallons per month, beginning with April, 1916 and ending in March 1917, at the price which is to be agreed upon by you later on.

If you give me much an authorization, I will get Mr. Whitaker's firm to approach the Italian Commissioners and find out how much toluch and at what price they are willing to buy, and we will immediately get in touch with you, and mek you for your price.

The contract will have to be made between the Italian Commissioners and yourselves, or if you wish, we will sign the contract on your behalf, holding ourselves responsible for the payment to you.

The main object in this matter is to capture Mr. Whitaker in order to selp ourselves out in our negotiation with Hall-Scott Motor people, but of course, we would like to make a little bit out of this, if you do not mind. We, therefore would like to ask you to give us 10% commancion, to be divided between Mr. Whitaker and ourselves, of the contract price, which we will try to make as high as possible.

Hoping that you will extend us your courtesy,

Shings Jak aki

ST:VC

75

Feb. 5th. 1916.

Miteui & Company, Limited, 25 Madicon Avenue, Lev York City.

attention of Mr. Shunzo Takaki.

Dear . ir:

Your favor of the fourth instant in regard to the Toluci from Mr. Editon's Combria Flant has seen received. I now beg to confirm what I told you over the telephone this morning, manuly, that we shall be unable to make you any proposition, as to have clroady disposed of the Toluci from the Cambria Flant for one year.

Yours very truly,

assistant to .r. Edison.

Feb. 5th. 1916.

Powers-weightman-Accomparten Co., Binth and terrich Etrecta, thiladelphia, Fa.

Centlemen:

coplying to your fevor of the first instant, we beg to say that it is expeint in Rédicant; solicy to give to anyone exclaive rights of sale of any of his products. It would be assecially to in the case of from wy hydrogen, as a are not really sociing to build up a trade in this emerici, nor do we intend to, except in regard to our excess. We make a large quantity for our own requirements, and could capilly a cortain quantity in excess, eithout increasing our investment. It is with regard to this excess that to have had our provious correspondences with you.

ir. Edison dis think that he might try to take ours of a larger production, but seems to think not that the buniness is not sufficiently attractive at the price.

Yours very truly.

Edicon Laboratory.

120mm BROADWAY, NEW YORK

Thomas A. Edison, Esq.,

Edison. Esq., Weadser aft Orango. How Jorsey. Get lagether all the peoper

Dear Sir: Mr. Horbert Lowis of this city

his correspondence with you concerning his commissions, upon the sule of your supply of toluct to Messrs. J. P. Morgan & Coppany, and has asked us to write and ascertain if this matter could not be amicably adjusted. Mr. Lewis tells us that he went into this proposition relying upon your word that at least six hundred tons of toluch were to be delivered, feeling certain that no better security could be given to him than your statement. He feels that he was justified in rolying on this without having any writing covoring it. If you think some adjustment of this matter could be made we will be pleased to hear from you; otherwise we will be obliged to send the case to our New Jersey representative.

Yours vory truly.

CFDP-MS

February 11th. 1916.

Mr. Holden:

I hand you herewith econce papers relating to a matter on which Mr. Edison tould like to have your early stitution. In connection with them, lot we make the following statement of facts. In the early mark of February lest year a Col. J. D. Davis brought and introduced to Mr. Edison a Mr. Morbert Lewis, of London, who opened negotiations with Mr. Edison for the Toluci thich he expected to make at the Bensel Plant at that time in course of exception at Johnstonn, Pa.

These negotiations were concurred by a sale to the British Government through J. P. Horgen & Company as per contract contained in letters I and 2 hereto attached. The arrangements with Hr. Levis in regard to commission, and in regard to commission to be said by him to Col. Davis are covered by letters 3,4 and 5 hereto attached.

The first three rupers attached hereto will show you the turn the metter has taken at this time. Lill you please note Mr. Edison's memorandu on these three letters, and proceed in accordance therewith. If you write to Dos Passos Brothers, it might possibly be well to lot us see your proposed letter up here.

E. H. MEADOUCROFT.

g and

February 14, 1916

Messrs. Dos Passos Bros., 120 Broadway, Now York, H. Y.

Gontlemen:-

Your lotter of the 7th inst. to Mr. Edison relating to the alleged claim of Mr. Herbort Levis has been referred to this department. Mr. Edison denies that he ever gave Mr. Levis any assurance that the quantity of toluch to be supplied to Mesers. J. P. Morgan & Company would amount to at least six humand toms. Up to date, 28,572 gallons of toluch have been supplied under the contract, and no more, and Mr. Lewis has been paid, either directly or through the Equitable Trust Company of Hew York, the sum of 1428,60. Mr. Levis has therefore been paid in full up to date everything due him under his contract with Mr. Edison, and I am unable to see that he has any further claim.

Yours vory truly,

General Counsel

TOLUGE SHIPPED ON ACCOUNT OF BAITISH CONTRACT							14
Lot	#1		June	18th,	1916		٤,939
•							
4	3		"	28th,	1915		1,542
н.	4		hug.	25th,	1915		3,664
11	5		Sept	.18th,	191 b		3,192
11	6		Oct.	Soth,	1915		4,406
11	7		Nov.	24th,	1915		4,936
	8		Jan.	13th,	1916		-4,026
		Total	1				28,172

ADDRESS NAVAL INSPECTOR OF POWDER, EAST COAST,

225-E

OFFICE OF NAVAL INSPECTOR OF POWDER, EAST COAST,

Post Office Building, Jereey City, N.J., FEB -8 1916

Reference: (a) Bureau of Supplies & Accounts ltr.23233 of 12-24-15. Subject: Phenol - date on which monthly deliveries should be ready for inspection to avoid assessment of liquidated damages.

Sir:-

- 1. While inspecting the February shipment of phenol on Feb. 7th, Mr. Kammerhoff mentioned to me the matter of liquidated damages which had been assessed your company for the delay of delivery due bee. 1st, and requested that I inform him when he should have the material ready for inspection in order to avoid a similar occurrence.
- thic. From this I information (a) appears to me to cover this. From this I infor that the monthly deliveries chould be ready for inspection on or before the tith of seah month, and the Impector should be informed sufficiently in advance of that date so that it will be possible for him to make the impection by that time. This procedure on your part will clear you from the assessment of liquidated damage.
- ment businese, to appear at your works on or before the 5th of sech month, after he had been duly notified that mestail was ready for inspection on or before the 5th of sech inspection on or before that date, the fault would lie with the Government and your company would under these oir commatences me ohooked for liquidated damages. When our with the proper suffered the fact of the fault would be section at the second with the proper suffered the fact of the fault would be second the fault with the proper suffered the fault with t
- 4. The inspection of the Feb. shipment is a case in point. The Inspector was informed by messenger early Friday Feb. 4th, that the material was ready for inspection. He was unable to make the inspection before Monday, Feb. 7th. The Eureau of Supplies and Accounte will be informed at the proper time of this fact, and you will not be ascessed liquidated damages for the Feb. shipment.
 - 5. Will you kindly give Mr. Kammerhoff the information he

desires as I promised to let him know but thought it better to take up the matter directly with you.

Respectfully,

Mimberly

Lieut.Comdr. U.S.Navy, Naval Inspector of Powder, E. C.

Mr. M.R. Hutchison, o/o Laboratory of Thomas A. Edison, Orange, N.J. UNITED PIECE DYE WORKS DYERS PRINTERS AND FINISHERS IN THE PIECE OF

ALL SILK FABRICS, SILK & COTTON MIXED GOODS. SILK & WOOL, ALL COTTON GOODS ETC.

Para.

Lopi, N.J.

February 9th. 1916

Mr. Thomas F. Edison.

Edison Laboratory.

Orange, T.J.

Dear Sir.

ORTHO-WITRO-PHREEL.

We have before us your favor of the 7th. inst. and ines ber to state that we are in the market for this material and wil pleased to have you send us samples and price. Our requires will probably be about 1 ton per month more or less.

We would be interested to heer from your

Findly : darose all further come mications to

Yours truly. WE UNITED PIECE I'VE WORKS,

Assistant Treasurer.

E.R. SQUIBB & SONS, NEW YORK MANUFACTURING CHEMISTS TO THE MEDICAL PROFESSION SINCE 1858

Miline

New York

EXECUTIVE OFFICE

) n

February Hinth Nineteen Hundred Sixteen

Er. Thomas A. Edison Orange, N. J.

Dear Mr. Edison:

that you would be willing to sell us a set of drawings for a plant for manufacturing aniline of las you do it. We have preciselly decided to take up this product, and I shall therefore make free to call on you soon for a conference regarding the drawings that the process on the basis of 64g per gallon for feer 200 your process on the basis of 64g per gallon for feer 200 your process on the basis of 64g per gallon for feer 200 your process on the basis of 64g per gallon for feer 200 your process on the basis of 64g per gallon for feer 200 your process on the basis of 64g per gallon for feer 200 your process on the basis of 64g per gallon for feer 200 your process on the basis of 64g per gallon for feer 200 years of 54g per gallon for feer 200 years of 54g per gallon for feer 200 years of 54g per 200 years

In view of the rapidly changing sarket for acids and Benzol we would very much appreciate a reply from you at your very earliest convenience.

Yours very byuly,

Vice President,

They better Come the us

Contraction of the Contraction o

February 10th. 1916.

Mr. Zammerhoff:

Herowith I hand you copy of a letter from Lieut. Kimberly in which he makes explanation in regard to the date of delivery and notification for inspection. 311 you please be guided by the instructions contained in his letter.

I em glas of one thing, and that is, that this differe from the army chipmonts, which we have to make every 30 days. From this letter respects that our monthly deliveries for the lavy should be acady for imspection on or before the two commonts, the common of the comm

W. H. MEADOWCHOFT.

Enclosure.

Silver Lake, H. J., February 10th, 1916.

air. Meadowcroft:

RE: 1HENOL CONFORMING TO THE U. S. PHARMACOFORIA. Your memorandum of Feb. 9th.

We have made careful laboratory test of our Fhonel as it comes from our stills the test being made according to the description which you have sony me.

50 find and our Thonol passes all requirements. The assay showed 99.25 of absolute Phonol, whilst the minimum required to 965 of absolute Phonol.

I would like, however, to draw your attention to the fact that in regard to the expression "Armentic Gold" pages not define clearly what is meant, so that it some possible, that in this respect mismor-standings might occur. It may, perhaps, be possible to point this out in a contract with the customor, so that we do not run any risk if the odor sometimes should not come up to the standard which the customor muts up.

The diserve of first are to the the there are to the the there are the the there are the the there are the the there are the the there are the the there are the the there are the there are the there are the there are the there

American Oil & Supply Co.

Oils, Greases, Acids. Chemicals

52-54-56 Lafayette Street

Newark, N.J. Feb. 10th, 1916.

Thos. A. Edison, Lab.,

West Orange, N. J.

Ly dear Mr. Edison:

A certain friend of cure has an idea that he is a chemical merchant and incidentally the king of all pertaining to Aniline Oil. I don't think so myself. I am enclosing herewith a check for \$855.00 at your share of a little go that I had with him.

The stub attached to the check explains

itself.

V-um aincomaly

7054

32 BROADWAY, NEW YORK

Messrs Thomas A. Edison, Inc.,

Orange, N. J.

Dear Sirs:-

February 10, 1916.

Enclosed is a clipping from this morning's Journal of Commerce which no doubt will be of interest to you. I am desirous of conducting an independent investigation as to the prospects for an adequate supply of dyes. As an aid in this direction, will you oblige by giving me such facts as are available in connection with . your own production, and especially the prospects of production?

Any suggestions for improving the dyestuff situation will also be highly appreciated.

News Editor.

lay the manifesture about 14000 lbs after (P) Carbolic daily - also 5000 lbs anime cel a vonable almount of nitro benz of a candhie & a vonable almount of nitro benz of a paraphanylene of amount — The dater to a almost enterely for Tun Dyenny Justin Andre Oil was mostly for Dyenny Andre Oil was novily for Dyenny hoverny black to also as a catyfight in Rabber Works

OF COMMERCE AND COMMERCIAL BULLET

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THE JOURNAL

maintees of effected theses of dynamics will be preceded.

Treasless these will recorness it to be no be preceded.

Treasless the property of laint & McGuira-Na reply; can obtain no Samuel Catot. Make only creases preserva-

of the control of the

WESTERN UNION

TELEGRAM

Sommers

ECORGE W. R. ATKINS, VICE-PRESIDENT NEWCOMB CARLTON, PRES RECEIVER'S No. TIME FRED

SEND the following Telegram, subject to the terms on back bereof, which are hereby agreed to

> J. P. McMaughton, Dominion Iron & Steel Co., Sydney, N. S.

February 11th. 1916.

when will you send me the additional contract for five or ten thousand gallons more Benzol per month, contract based on memorendum aggreement signed by Plummer and myself day before he sailed to have you two more tank cars on Sydney service to cover in a Can you let me have still more in addition to above commencing May first at fifty-nine cents.

Mr. Edwar the above. THOMAS A. EDISON.

Il ocens quite alour tome.

Con boles

Silver Lake, N. J., February 11th, 1916.

Mr. Edison:

Re: IMFORMATION FOR MR. TATSUMI.

According to your directions, I can sending you a list of questions put up by Mr. Tatauni, and my answers thereto. Pienes let so know if those explanations are setisfactory to you, so that I may turn then ever to Mr. Tatauni. Bosides, the letter has received a set of blue prints of our apparatas, tanks, etc., as for no such drawings are smillable.

M. MACH RHOFF.

~14j.

M Edward C.K.

QUESTIONS FROM AND ANSWERS TO MR. TATSULI.

Carbolic nichui

Question

SULPHONATION

phonating pot?

- (a) I have heard from you that six hours is required for one operation. Then can we operate four times per day by this oul-
- (b) What quantities of Benzol and Sulphuric Acid are charged at one time?
- (c) I think Sulphonating Pot have been acting by acid. Repairs must be often done, isn't so?
- (d) Are cooling and heating necessary in sulphonating?
- (o) How do you dotect the end point of Sulphonating?
- (f) How many revolutions por minute has the Sulphonating Pot?

e. GAICIUM

- (a) How many rotations per minute has the Calcium Tank?
- (b) How do you detect the end point of noutralization point by Calcium?
- (o) How many capacity has the Calcium Tank?

Answor

- (a) the Adjoinating process takes about six hours if 98,5 Sulphuric Acid is used; it takes about eight hours if Faming Acid is used.
- (b) In the Sulphennting Process we use 350 pounds of Bouzel, plus 840 pounds of Culphuric Acid of 98%. Or 450 pounds of Bonzel, plus 722 pounds of Fuming Acid.
- (c) Repairs of some or the other kind here to be frequently made. Funing Acid, however, appears to be more approacive, and causing more repairs than does Sulphuric Acid of 98,2.
- (d) It is necessary to provide the sulphonating kettle with steam as well as with water connections, the steam being used for heating — the water connection for coeling purposes.
- (e) During the Sulphonating Process the operator inserts a small glass pipe from time to time, closes it on the other end by his finger, takes the pipe out of the kettle and soes if any free Bonsol is loft on top of the Acid.
- (f) The stirrer in the Sulphonating kettle makes about sixty revolutions per minute.
- (a) The stirror in the Calcium Tank makes about 25 revolutions per minute.
- (b) We use Litmus Paper in order to test whether the neutralization has been carried through.
- (c) The Caloium Tank has a capacity of about 1575 gals. We put in it at a time one charge coming from the Sulphonating kettle.

3. CALCIUM SALT OF BENZOL BULPHONATE

- (a) How many capacity has the filter press?
- (b) I think the filter press is sufficient for 1 ton plant daily. How do you think?
- (c) Have you some proposal to press stronger than present pressing in order to prevent the less of Bonzol Sulphonate solution?

4. ADDING OF SODA ASH

- (a) Are the sods ash tanks quite seme as Calcium Carbonate Tank? If not so, please tell me the capmaity of sods ash tank.
- (b) How many revolutions per minute has the seda ash tank?
- (c) How do you detect the end noint of sodn ash adding?
- (d) Do you dilute the solution of Bonzol Sulphonate of soda in order to decrease the loss of that soda salt with Calcium Carbonate?

EVAPORATION OF SODA SOLUTION OF BEHZOL SULPHONATE.

- (a) How many capacity has the evaporating pan?
- (b) At what dogree of concentration do you change the solution into the drying pan?
 - (c) How many capacity has the drying pan?

- (a) One press has a capacity of 32 cubic foot in 48 frames of 36 inches by 36 inches aquars. It is large enoughto receive one batch from tha Calcium Tank.
- (b) For a production of 2000 lbs. of P. Fnomol a day, I think it wise to have two presses, one of which sorros as reservo. If one press only is installed, there should be as a kind of reservo a second complete set of plates.
- (c) For foreing the solution out of the press we are using present air of between 40 and 50 lbs. pressure per square inch. So far as we have found out, it would hely revy little to use still higher air pressure. At present we do not know of a better method to get the solution separated from the
- (a) The tank has a capacity of 1660 gals. I advise using a stoel tank instead of a wooden tank.
- (b) The stirrer makes about ten revolutions por minute.
- (o) We test the process of decomposition with Literus Paper.
- (4) one batch in a Sulphonating kettle consisting of 550 pounds of Benrol takes 200 to 210 lbs. of Soda Ash, the latter being dissolved in about 100 gals. of water, and then mixed with the solution in the tank where the decomposition takes place, the solution coming from the press, being lime Bancol Sulphonate.
- (a) One evaporating tank has about 1100 gals. capacity. I adviso using steel tanks instead of wooden tanks.
- (b) We boil the solution down so far that it just can be pumped over into the drying tanks, its specific gravity being about 1100 at 40° Contigrade.
- (c) The drying tank has a capacity of about 1550 Gals.

٨. ALKALI FUSION

- (a) How many quantity of Caustic Soda, the soda salt of benzol sulphonate and water are charged in the melting pot at one time?
- (b) How do you detect the finishing point of Alkali Pusion?
- (c) I want to know the temperature of each half an hour during the whole operation of Alkali Fusion.
- (d) How many time is required to alkali fusion? If possible, I want to know the separate hours of charging (1) and molting of caustic soda, charging and molting of sode salt of Benzol Sulphonate and discharging of melted mass.
- (o) iir. Edison said to me one day that the fused mass solidly at some time, ture is not kept high enough. It is I want to know the reason, and would like to hear your opinion to prevent such regults.
- (f) Now much power is required to oach melting pot?

HEUTRALIZATION

7.

- (a) I have known by your kind answer that you are using 98% Sulphuric Acid diluted to 1.580 specific gravity. I would like to know also the specific gravity of solution of Sodium Phonolate before you noutralize it with acid.
- (b) I think that the neutralization is vory important point, although it seems very simple. In there a special method for neutralization to increase the wield of Phenoly
- (c) How do you detect the end point of neutralization?

- (a) We fuse 1150 lbs. of Caustio Soda with 1650 lbs. of Sodium Salt of Benzol Sulphonic Acid, adding 30 to 40 Liters of water to a batch.
- (b) The temporature during the Fusing Process rises to about 3270 Centigrade, or 620° Fahr. It should not go over 320° Contigrado. The total timo for a normal charge is slightly over 8 hours.
- (c and d) I would advise that you, yourself, watch the Pusing Process and the number of batches closely, so as to got acquainted with it. As you furthermore intend to buy a recording instrument and attach it to one of the Pusing kottles, you will get the desired dotolla.
- (c) Trouble can arise if the temperanecessary to discharge the fusing kettle at a temporature not lower than 2500 Centigrade, as otherwise the fused product starts becoming hardened.
- (f) We drive the stirrer in the Fusing kottle by a 3 horse-power motor.
- (a) We do not test the specific gravity of the mixture in the neutralizing tanks. It would be very difficult to got any dependable results in regard to specific gravity, so the latter is changing constantly, and various according to the more or loss dissolved Phenolate, the Phonolate constantly striving to sottle down.
- (b) I do not know any special method to increase the yield of themel from the Houtralizing process.
- (o) The operator must be taught to watch the process closely. This being done, we find it cary to avoid mistakes. The Loutralizing is considered as being finished when the evolution of yes --50g, becomes apparent.

والمناط المستوا المران

- (a) I would like to know such composition of Grude Phonol as water, Pure Phonol, higher Phonol and the other impurities.
- (b) How many pounds of Orudo Phonol are charged to each still? How many pounds of Pure Phonol can you make from each still for one charge?
- (c) I think that the residue of still after distilled all Pure Phonel and the first running of distillation contain some quantity of Pure Phonel.

What method are you taking to recover the above Pure Phenol?

- (a) The Grude Phonol contains about 17% of water and about 82, of P. Phonol, whilst the remaining 1% is residue.
- (b) Our large Yacuum Still can be charged with up to 10,000 lbs. of Crude Fhonol, whilst the small stills take up to 2,000 lbs. of Crude Fhonol. The direct yield of F. Phonol is about 62%.
- (a) During each charge of our distilling apparatus, we first drive off under stronghoric pressure the so-called steam heads, containing southy water. In order to avoid say loss of P. Phonol contained in this water we use the latter in our Neutralizing process for dissolving the Phonolato.

After the steam heads are driven off we get so-called "wacuum heads", distilled over under wacuum, containing P. Phonoi and some water. Those Vocuum Heads are added to the Orudo Phonoi in the next charge of the Dietilling apparatus.

The residue remaining in the kentle actor the P. Hemel is distilled ever, is stored and will be re-littlied wine, is stored and will be re-littlied whom we there come to the hemel to dispose of it distilling this residue shows that it contains some P. Famoun and some other matter itselfilms of the residue shows that it contains not be a Famoun and some other matter itselfilms over the contains not be readed to the residue of the residue

- (d) How do you detect the point that P. Phonol begin to distill?
- (e) I observed that the distilling of Phenol become brown. How do you remedy that condition? If there are some methode to prevent such bad results, please tell me those methods.
- (d) The operator of the distilling appearance must learn by experience how to handle it. Steam Heads should be driven off under atemphoric pressure at a temporature rising up to about 115 or 120 odegroes could ingreade. At a changing over from Yaouum Heads to Phenol Crystale atoms takes place at about 126 centigrade.
- (a) There is no damagor of getting colored P. Phenol as long as the operator keeps the kettle and tanke properly cleaned, provided, furthermore, that the Phenol cyretals are not distilled over at too high open. Kettle and roosiving tends made from cypus rid and the latter are more easily attacked, as the latter are more easily attacked by the Salphanguay.

(o) (Continuod)

Gas contained in the Crude Phenol, and as evon small particles of scale from the steel tanks tend to discolor the Thenol Crystals.

ANALYSIS

(a) What materials are you analyzing daily? I would like to know those name and the all results of a few days.

(a) We are tosting daily in our Laboratory: lat. Each batch in operation 1 from the Sulphonating pots. The specific gravity of the Bonzol Sulphonic Acid should not be higher them 500 Bonzol, there should be no free Bonzol.

Edd. Operation 6. Sodium Calt.of Bonzol Sulphonio Acid. The Sodium Sait should be as dry as possible, we allow not more than a maximum of 4,5 of water, but have mostly comsiderably loss. There should, turtherwore be an excess of MagOO3 of not more than 1%.

3rd. Sodium Phonolate. We make a test of each batch coming from the Pusing lottles, taking 170 green and neutralizing it, allowing as maximum 10.5 Rosiduo, expecting not less than 50 cubic contimetros of Grude Phonol.

4th. Crude Phonol. From the unsettled Crude Phenol we take 100 cubic contimotres, allowing not more than 4% of Residue. 5th. P. Frenol. We test color and

5th. P. Rhonol. We test color and crystalizing point from each batch from the distilling apparatus, allowing not less than 30 Contigrade as crystalizing point. Soe copies of our daily test of January 24th, 26th and Docomber 31st, 1916.

10. The consumption of Sulphuric Acid and Constit Sode in Sulphorization of Sonsol resp. Alball Pusion are more than 2 times of theoretical necessary quantities. Have you any proposal to decrease the consumption which will succeed in near future? The proportions have been settled after making numerous experiments. If we alter them we are not sure of success.

11. I beg to inform you that I am very satisfied, having understood the operation gradually. I was information that the state of the yellow of ye

As far as our analysos show, we look houst light from Operations 1 to 6 by carrying over house about of bence 10 Sulphonio Acid, whilst the rest is lost by transferring Sodium Salt into P. Phonoi.

12. MOTORS

(a) You are using individual motor for each machine. I think that this system is very convenient, but I think also that using of summarized motor is cheaper in cost, although somewhat inconvenient. Now do you think?

(a) The question whether each machine should be driven by a separate meter, or whether a member of machines eight to connected together to our motor, has to enswered individually in each case. It has hardly anything to do with the chomiscl problem.

compare the by high, turne or extending are compared the by high, turne or extending are comen where it is better to comment any arms of the comment of the comment of the comment of the compared to the comment of the compared to the control of the compared to the control of the compared to the compare

I I mediting as a further againmution, or ends of or and ally approximate the Sti, 25cd and 25th of a funning, 1916, and the Sti, 25cd and 25th of funning, 1916, who right has you keep trust of the material und in the different operations in the Suffponning, single and loosupper and the sufferent operations in the Suffponning, insulate and loosupper and particular the property of the sufferent operation of the sufferent operation of the sufferent suffe

In order to avoid greater losses which might be caused by broken pipes, leaking tanks, etc., we make besides the monthly inventory, as a rough inventory corry jumilar, comparing the production of the previous week with the total consumption of materials used.

2-11-1916. St. Kammedyff.

Drusof.

WM.A.READ & CO.

NASSAU & GEDAR STREETS NEW YORK

CHICAGO
23+SOUTH LASALLE STREET
PHILADELPHIA
H21 CHESTAUT STREET
BOSTON
19 CONGRESS STREET
LONGON
C AUSTIM FRIARS

NEW YORK, February 11,1916

Dear Mr. Meadowcraft:

Confirming my telephone conversation with you I wish to give you the following memorans:

I talked with the "livaukee Coke & Gas Co- and
the arcthwestern Iron Company over the telephone this
afternoon about the extension of Ar. Edison's contract
for bennoi from their expiration of Ar. Edison's contract
for bennoi from their expiration that the
time that they ome extend his contract they made the
following statement to me.

They are desirous and intend to do everything they can to take ear of r. Nisions requirements, and the only reason they cannot say that they can do this is that their own requirements for beneal in their refining plants are somewhat uncertain, and they are not positive what exact uncount they will have available. At present they think they will be able to take care of ir. Edison's entire requirement to the extent of 1,000 gallons per day for the rest of this year, with the possible expectation of a shortage occuring during July and part of august.

They will not sell any bonsol whatever for the second half of this year without first offering it to it. Midson and they will not increase their own consumptive requirement without weighting vry carefully in their minds the effect this this night have on their ability to take core of interest of the core of the contract of the core of the contract of the contract

WM. A. READ & CO.

Wm. H. Meadowcraft, Esq. -2-

f shall be very glad to keep you informed from time to time as to the situation.

With kind personal regards, 1 am

Very truly yours,

Wm. H. Meadowcraft, Eso. Orange, N.J.

CD-JS

WORKS, SILVER LAKE, N. J. MAIN OFFICE: EDISON LABORATORY ORANGE, N. J.

ANILINE DIVISION THOMAS A. EDISON

Mento?

SILVER LAKE, N. J., Peb. 12, 1916.

Mr. W. H. Meadowcroft,

Laboratory.

Dear Mr. Meadowcroft:-

Much annoyance, delay and inconvenience has been and is being experienced by these divisions due to the telephone service rendared us through the switch-board in the Chemical Works. The business of the superintendents of the plants, Kr. Mason and the office here is being subjected to the convenience of the other divisions, and after consultation with those above mentioned, it has been deemed advisable to install a two-trunk line six extancion switch-board here with a connecting line to the Chemical Works, which we can operate without the acquisition of additional help and at no greater cost than now is imposed upon us, but with greater efficiency in service.

If necessary, will you be so kind as to present this to Mr. Edison for his decision in the matter.

Mes felision of the fer work of the fer the fe

AMES E. CLARK, MANAG e 625 GRAHER MUNITION MANUFACTURERS' ASSOCIATES treb. 12,16 train Labratory Hay don't went as Que regard to may be interesting Bens that I have see 70 cents from alrad was 65 cents 7 decline rufg, During the lasgottoots received serval in ge our sufge. whom ? to supply. This of course personal If you with to suff abid I to cents, sives ser if my man the most of Burgol mes for you the preference, all other Things bring Equal. I tum he will not sell for less. The demand is for frester. the supply. My delivers will not legin for at least 3 menths Turky your, charly OS. Runda advise you to his 71 cents at least yelo ifficat.

Tolwof- Thitemi

February 12th. 1916.

I am dictating this memorandum simply as a reminder. On February 10th Er. Takakit telephoned that he had an offer for Koodward Toluol for the year 1917 at a price which would net \$2.85 per gallon, the quantity to be 120 gallons per day, more or less. Mr. Takakit asked me to ascertain from Mr. Edison whether or not he would advise the acceptance of this offer, which had been made in bohalf of the Italian Covernment.

I spoke to ir. Edison about it, and he said that we could probably get a better price from Pont and suggested that I call up L. S. Carpenter, Jr. I did so, and Er. Carpenter told me that they were not making any contracts for Toluol for the year 1917.

I told Mr. Edison about this, and asked him whether he would advise Mr. Takaki to accept the other offer. Mr. Edison said that it would be all right to do so provided that Mr. Takaki in making his contractsmade them with absolutely reliable and responsible people so that there would be no doubt whatever about the material being taken and paid for. I telephoned Mr. Takaki to this effect on February 11th, and luid a great deal of emphasis upon it.

W. H. MEADOWCROFT.

WITH

all right Arrange with yourself Mr. Miller:

Binney 1 Smith called mo up on the tolephone today and acked if we would accept an order for 10,000 nounds of Iron by Hydrogen, to be distributed in equal chipments over the remainder of this year. I told them that to would account such an order at 35 cents, plus package chargos. They said they would send the order slong later.

But usual Clauses.

Mr. Millor:

Enclosed I weg to hand you letter of lowershoightman-hosengarter Company dated February 12th, together with their order #9/6A for 1,000 pounds of Iron by Hydrogen, to which please gife your kind attention.

Por ;our information I am also enclosing copy of M. Edwar Was Washington Of the Waller our letter to them of February 5th.

Feb. 14th. 1916.

Mexecton & hobbins, 91 Fulton Street, New York City.

Gontlemen:

Referring to your favor of the third inctant in regard to 1,000 pounds of Crystal Carbolic acid per day from May let to December 31st, 1910, we beg to say that he would not core to undertake the guarantee you mention. Your very truly,

Edison Luboratory.

Feb. 14th. 1916.

United rieco Dye Works,

Lédi, H. J. Gontlomen:

SUBJECT: ORTHO-MITRO-PHENOL.

Your favor of the minth instant has been received and laid before in. Daison. Re request us to are that to are untemplating an addition to our products of feranticophenel, Orthonitrophenel, and Tarumicophenel, but fast at the moment we cannot say for sure that we will do so ... o will mevice you later on this subject.

Yours very truly, Edison Lucoratory.

STEEL CITIES CHEMICAL COMPANY

SULPHURIC ACID

BHMINGHAM, ALA. Peb.14, 1916.

Edison Laboratory,

Orange, H.J.

Gentlemen:

With apologies for delaying answer to you for the latinguiring for "ulphmric pad for the period of the latinguiring for "ulphmric pad for the period of the latinguiring for "ulphmric pad for the period of the latinguiring for "ulphmric pad for the period of the latinguiring for "ulphmric pad for the period of the latinguiring for "ulphmric pad for the period of the latinguiring for "ulphmric pad for the period of the latinguiring for "ulphmric pad for the period of the latinguiring for "ulphmric" pad for the period of the latinguiring for "ulphmric" pad for the period of the p your benzol Plant at Woodward.

We beg to inquire what term contract you would want We are supplying the Woodward Iron Co. on term contract about one ton per day of 66 De. Beaume Acid at Is this about the quantity you would want? We are very limited in what we have to offer.

Yours very

E/a

Dominian Iran & Steel Company sinus. Sydney; Cope Broting

Dominion

112. St. James Street.

Montreal, Que.,

15th February 1916.

Thos. A. Edison, Esq.

Orange, New Jersey.

Dear Sir:

Confirming our message of this date, we beg to advise you that we ere preparing contract along the lines discussed between yourself and Mr. Plummer.

Under the existing conditions, it will not be possible for us to undertake shipment of more than 25,000 gallons monthly in all for your account, from now until the end of the present year.

We hope that the documents which we are now working on will be satisfactory, and in the meentime,

Yours faithfully,

McKESSON & ROBBINS College of College lover Wenn down to Pobragy 16, 1916. gets his sudestilling the Ur. Thomas A. Edison. we can despose of Orange, H.J. it then Squebes Littenk Centlemen: To have your favor of the 14th and note that you cannot guarantee to maintain the quality of the CRYSTAL CARBOLIC ACID which you offer us on contract from May to December. Kindly let us know if possible what you will guarantee in regard to quality and oblige Yours very truly. Me Solven are Coller son the sound son the country of the solven son the control of the control son the contro FJLioD/HM out to design of the state of t

THE EDISON PORTLAND CEMENT COMPANY



STEWARTSVILLE, N. J. February 17, 1916.

Mr. Wm. H. Meadcwcroft.

Edison Laboratory,

Orange, N. J.

My dear Mr. Meadcworoft:-

I beg herewith to hand you a letter

from Mr. Frank C. Roberts, which explains itself.

Please take the matter up with Mr.

Edison and write Mr. Roberts direct whatever Mr. Edison

Yours very truly.

WSW-RRS

checses to say.

ENCLOSURE: -

Say Reports Barron was a

Strengthman in own Employ
who lass 69 in trying to seel
plans of see Cartalic acid
plans of see Cartalic acid
plant to others, forthe last year
condition for PERMANENCE

FRANK C. ROBERTS & CO.

REAL CREATE THUSE BUILDING,
B. C. CON, BROAD AND CHESTAUTSTA.
PHILADELPHIA, PA., U. S. A.

PHILADELPHIA, PA. February 16, 1916.

MR. W. S. MALLORY,

College Hill, Easton, Penna. 7212

My dear Mr. Mallory:-

I am anxious to learn something of what you and
Mr. Edison think of Mr. Leopold Barron, Vice-President
and General Manager of the Carbolite Chemical Company,
120 Broadway, New York, N. Y. I understand that Mr.
Barron claims to be an expert on Coal Tar and its
derivatives and I am told that he states that he has
put up a plant for Mr. Edison.

One of my clients contemplates engaging the services of an expert along this line and Mr. Sarron has been suggested. If you will be good enough to let me hear from you in the matter, I will be extremely obliged.

With kind regards, I am
Yours

M. Calson

An English

An English

Many Carlot

Many

Yours very truly,

fant Frank

MITSUL&COALMITED. Milsui, ACU (Mitsui Bussan Kaisha, Std.) MOUKDEN DALNY OTARU MIINE TOKIO TIELING SEOUL WAKAMATSU SAPPORO YOROKAMA TIENTSIN KARATSU TAIPEH YOKOSUKA ANTOHKEN KURE TAINAN CHEFOO KWANCHINTY KOBE HANKOW CANTON BANGKOK OSAKA KONG KONG SWATOW NAGASARI SASEBO PANGOON AMOY SHANGHAI HAIZURU MURORAN AWOMORI MLYAKO SOURABAIA HOUL FOOCHOW MAGOYA KUCHINOTZI NEWCHWANG CALGUTTA CHOSHUN SYONEY Washington. VLADIVOSTOR GIRIN 25 Mudison Seonue, Verice Harle February 17, 19/ 6. 500 Crack 2 teek \$ 4 Thomas A. Edison, Inc., ٠ ١ ١ Orange, N. J. Attention of Mr. W. H. Meadowcroft. hange Gentlemen:-Mr. Tatsumi tells me that you make in b your Phenol Plant the following articles, as the intermediate products:-1. Soda Salt of Benzol Sulphuric Acid. 3. Crushed Cake of Phenol Soda. Will you kindly sell us 200 to 300 pounds of each of the above two for immediate chipment?

Will send your Mr. Meadoworoft the shipping

Yours very truly, punzo Taxax.

instructions as econ as you advise me you can spare.

phone 10010 Unition Square

AMBURG

OALLAS

MANILA

BOMBAY

PORTLANO

SINGAPORE

LYON PETROGRAD

SAN FRANCISCO

ST:VC

210

Catte Address:

ALL CONTRACTS SUBJECT TO STRIKES, ACCIDENTS AND CAUSES BEYOND DUR CONTROL

J. H. WOODWARD.

R.H.BANISTER, VICE-PRESIDENT. D.E.WILSON,

HERBERT C.SMITH,

WOODWARD IRON COMPANY

WOODWARD, ALA. February 18, 1916.

Ifr. Thomas A. Edison, Ifr. H. F. Hiller, Secretary, Oringe, H. J.

Dear Sir:-

the smalless hereafth extension of account of his months of because in month of block at the form of because and January aggregating 137,376.18. We also onlice stateight of you general account to January Sist amounting to 131,841.39. To enclose, also, expense bills 9.41 for your account 10.11 lovember, December and January.

We untidipate making some heavy payments on obligations due about the 26th and muck a special request of you that you kindly let us have your enself for all of the general account and December shipments of bonnel, etc., if possible, before that date, in order that to may know just that to expect. To will may recoid to your triting us by return mill whether or not you can forward as your clock for this amount. If there are any from on the bill for which you have not detailed our green please saying us and we will covered any promptly.

Awaiting your reply, we are,

Yours trul

Treasurer.

dev-g

J. R. MYERS Rouses Point, N. Y.

Malone, N. Y.

Fort Covinction, N. Y.

Nyando, N. Y.

Alburg, Vt.

BSTABLISHED 1980

F. W. Myers & Co. CUSTOM HOUSE BROKERS Forwarding and Insurance AGENTS

U. S. BONDED CARRIERS

CUSTOMS AGENTS FOR Grend Trunk By. Deleware & Hudenn Ca N. Y. C. Hellroad Co. Butlend Belirood Lake Chemplain Trans. Co. Queber, Montreal & Southers lly. Namierville Junetice By.

Rauses Point, N. V. Feb. 18, 1916.

Mr. Thomas A. Edison, Orange, N. J.

Dear Sir:

Mr. Mc Maughton, of the Dominion Iron & Steel Co.. telephoned mc yesterday that the company had under consideration a new contract with you for an additional supply of benzol and asked whether or not a change in your contract would effect the amount of duty assessed, and I told him that so long as we were paying duty on the wholesale market value the contract could not in any way affect such value: I incidentally inquired as to whether they were making sales for consumption in Canada, and he stated that the amounts were negligible and not in wholesale quantities, therefore it seems to be proper to advance the invoice value to meet market conditions in the United States, making proper deductions for freight, duty and other nondutiable charges.

As you know, we have been making additions to your invoices to make the price at Sydney $59\frac{1}{2}\%$, and so far our sntries have been passed at that valuation, but recently there was a shipment of benzel from the Toronto Chamical Co. which was entered at the port of Buffalo and the Local Appraiser advanced value to 62 g, based, as I understand it, upon the value of a former shipment via Buffalo to New York for export to Genoa;

I mentioned this case to Mr. Me Naughton and he tells me that Mr. Plummer is the President of the Toronto Chemical Co., which is, as I understand, controlling the output of the Sault Ste Marie plant, and that the price 62 mg was the deligered price at New York.

A request for reappraisement was filed in this case, the matter came before the U. S. General Appraisor of New York and when the case was called there was no appearance for the importer, and as a matter of course, the advance made by the Appraiser at Buffalo was sustained, and as matters now stand the records show a market value in Canada of 62 pt in the month of Nov. 1915.

It is advisable that you keep a very close watch on the market price in the United States, and advise us from time to time, when there is any material change in this price, so that we may add or deduct, as the case may be, from the invoice orice to make the actual market price.

Yours very truly,

Mr. Edison

This is going to be a difficult to thing to content with. The Good may by to make us pay tuly on that fuces, probably, whereas we aught to pay tuly on contract price. Hadrit I bother full the question up to the lawyord Straum to the gustion up to the lawyord Straum to the gustion who wen the case for in I measure of

February 19th. 1916.

Mr. Edison:

as per your directions, I have investigated the charges against E. B. Badger i Some Company for the c.anges which were made on the two Phonol Stills in order to make them work satisfactorily, and have arrived at the following conclusions.

The charges due to changes on Carbolic Still in No. 1 plant as shown in Mr. Meadowcroft's letter of January 19th are correct.

The charges on Still for No. 2 plant are correct with the exception that one bill for copper pipe from Mcrchant & Evens for 3192.51 was included through a clerical error. By deducting this we have the correct charge of 31,567.43.

then fittles were received they had each a fractionating column and dephlegement and condensor. After trying them out it was found that the fractionating column was totally united for such cork and it was discarded in both plant, but before being specified with drips, these were later forwarded by Badger people provided with drips, these were later forwarded by Badger people column was taken down and drips fitted in, later it was found that these drips were not in correctly, then one of Badger's mon came nor we sumplied labor to take columns down again and refit with drips, then it was found that the dephlegements and column was the column was column as the column and the column was considered and that condensor was totally innedequate to do the work required and that condensor was totally innedequate to do the

When the condensor from No. 2 plant was sent to No. 1 plant, so it could be started in operation, and it was necessary to provide an entirely new condensing apparatus for No. 2 Still. Copper coils were purchased for this and a larger condensing surface was arranged for . a large copper pipe with connections to the three new condensors was made and installed.

In addition to the above the bottles broke rapidly. Hiese had to be replaced by a different type brass bottle. It is very evident that the Badger people were not familiar with the distillation of Carbolic acid, for if they were, I cannot understand why they should have provided the fractionating column dephlegmator, and the very small condensor. As I understand the strangement, the Badger people were to furnish two Stills capable of producing 4,000 pounds each of pure Phenol per day. The Stills as received were entirely untitled for this work and it was incessary to make the original stranger mentioned above and make them quick so as to start producings mentioned above and make them quick so as to start produc-

It seems to me that these charges for labor and material are a small part of the actual expense you were put to on account of the feilure of the Bedger people to furnish Stille in accordance with acroment.

yours Very Tonly Co.H.Mason.

Benzal

Fr. Charles Edisor.

February 21, 1916.

Further with reference to bound submitted by Er. A. Otto of Mittaburg:

Er. Otto, while advising that his people would not consider a contract for 1915 only at any wice, now offers 1,000,000 gallons at 66f. Attahungh, for delivery before coptomber 1, 1917, at the rate of approximately 2,000 gallons nor day commoning optil lat. I have stated to Er. Otto that if you are interested in this we will communicate with him scale.

.... C. Thory

ACC.

Meadocraft
Has Haffman closed his Bengal
Contract if so drop this
I not we will start negations
on this

OFFICES: 45 Park Place NEW YORK

MERCK @ CO. MANUFACTURING CHEMISTS

NEW YORK,

Feb.21, 1916.

ST. LOUIS MONTREAL RAHWAY, N. J.

Main Works G/WFC/

Laboratory of Thos. A. Edison.

Orange,

New Jersey.

7680

Gentlemen: -

Referring again to our recent correspondence regarding PARAPHENYLEMEDIANIES, we regret to state that the sample submitted has not met with the approval of our Laboratories, imanmuch as it was very much discolored and the form materially different from the article formerly imported from Abroad.

In order that you may be familar with the course of a day or two a sample which we would ask you to kindly examine and advise us at your convenience, if it would be possible for you to supply a similar article.

Very truly yours,

MERCK & CO.

Attested &

Consen Con you Murch accorded without

borbolie

Feb. 22nd. 1916.

E. B. Badger & Cons Company, 71 _itts Etreet, Boston, Mass.

Gentlomen:

I am affeid you will think we are long winded in our investigation of the matter of the two Carbolic Stills. It is almost unnecessary, I think, to toll you that we have been very, very busy, and it has been difficult to got the time to investigate the matter.

At last me are ready to report to you, and I onelose herewith copy of a report made to far. Edison by far. t. d. Essen, one of our engineers.

As this report is self-explanatory.

1 shall make no comment on it.

Yours very truly,

assistant to Mr. Edicon.

Enclosure.

Steel Cities Chemical Company, Birmingham, ala.

Gontlemen:

I em in receipt of your favor of the 14th instant, concerning Sulphuric Acid for my Bensel Flant at Loodward, als.

We only use a little over threequarters of a ton per day of 66° Baume Acid. If it would be agrocable, I would like to contract at this rate for the remainder of the present year, say from April 1st, provided, of course, that a satisfactory price can be

awaiting the favor of your reply, I remain,

Yours very truly,

EASTMAN KODAK COMPANY ROCHESTER, N.Y.

Laboratory of Thomas A. Edison,

Orange, N.J.

Gentlemen:

Will you please inform us whether you can supply for prompt shipment 225 pounds of Corpolic Acid, quoting price? Yours truly,

EASTHAN K

ADDRESS REPLY TO PURCHASING DEPARTMENT

Carlalia

February 23,1916.

OK het them have it

ALLAN R. BROWN

RAUS & HEDGES
IE BROADWAY
NEW YORK

IETHOREE THE STREET

February 24, 1916

Laboratory of Thoe. A. Edison,

Orange, New Jersey.

Gentlemen:

Attention of Mr. Meadowcroft.

We are in receipt of your letter of the 25rd instant enclosing copy of letter received by you from Hessre, P. W. Lyers & Co. in the matter of the value at which your shipments of benzol should be entered for customs purposes.

You wish to be advised whether you should instruct Essers. Eyers & Co. to enter your importations of benzol at the spot price or the contract price of benzol, stating that the spot price at the present time is anywhere from 70% to 90% per gallon, whereas the highest price that you have paid for benzol on time contract is 65% per gallon.

The revenue lawe of the United States provide that duties must be paid upon the usual wholesale celling price in the market of the country of exportation (Canada), if such market exists. From the etatement made by the Dominion Iron & Steel Co. to Nr. Lyers, it would appear that there is at present no market in Canada and that the sale to the Toronto Chemical Co. was not a wholesale transaction.

Under these circumstances it would appear that this particular provision of the Tariff Act would not govern and

No. 2- Lab. of T. A. E. - 2/24/16

recourse must be had to the price at which such or similar imported bensel sells at wholesale in the markets of this country, due allowance by deduction being made for duties, cost of transportation, insurance, and other necessary expenses from the place of shipment tothe place of delivery, and a profit not to exceed 8% and a reasonable allowance for general expenses not to succeed 8%.

This provision of the law has reference to spot prices, and we think it would be well for you to savise Mesers. F. W. Lyers & Co. at least weekly of the variations in the American selling price of spot benzol, so that they may make the necessary deductions allowed by the statute and enter your merchandise accordingly.

We trust that the above answers your questions completely, and remain

Very truly yours, H

JFS/L

American Oil & Supply Co.

Oils, Greases, Acids, Chemicals

52-54-56 Lafayette Street

Newark, N.J. Feb. 25th, 1916.

Date this up with of I he leader of I have the second of I have been a second of I have been seen as the second of I have been seen as to whom we seld 9000 lbs. of your Antino 011 under date of Jan. 27th, which reads as follows:

"We beg to advise that this oil, upon analysis by Stillwell & Gladding of New York, showed 60% water, which our customer advises is unsatisfactory.
While this content is not generally objectionable

While this content is not generally objectionable or unusual they devise that should they be obliged to adjust the matter with their foreign buyers they will have to look to us for settlement, in which make we, of course, would look to your good selves for adjustment.

It is our opinion that the 60% mentioned above is a typographical error and what they actually mean is 6%. We are writing to find out whether this is 800.

In the meantime, may we ask that you let us have an expression of your opinion regarding this matter?

We Charles of the parties then

May Charles of the parties then

My the parties of the parties then

My the parties of the par

Rehim min

730) Fobruary 25th. 1916.

Mr. Edison:

It looks to me as if it were soing to be a pretty stiff proposition to keep P. L. Lyers & Company advised of the American selling price of imported spot Benzol. I suppose the only reliable place where we could obtain the information would be the Custom House, but even thet would not be practicable, as there are a great many ports of entry in the United States. I don't suppose that the Treasury Department at Leshington (which controls the customs) would know promptly enough.

Even if Benzol were being imported, and even if we could get the price promptly enough, it might be lower than the market for spot amorican Benzol, and the United States Appraisor might raise the valuation on us on the basis of the market for american Septol.

I think I will write Strauss & Hedges ugain, if you approve, and put this up to them.

MEADOWCROFT.

With

Ok findout how we can do it when probably no bened is unanted Would of themmes whent of Marie Co of they have an Soult Buydrock I

Feb. £6th. 1916.

Strauss & Hedges, 12 Broadway, Hew York City.

Gentlemen:

Referring to your favor of the 4th instant, lot me say that it is foldy to be rather a difficulty proposition to keep 2. ... !!were 2 Company advised of the American soiling price of imported post bennel. The difficulty could be controlled provided provid

You will see from the above where the difficulties lie, and Hr. Edison will be very glad if you will kindly advise us what will be the safe thing to do.

There is a car of Benzel on the way to us now from Sydney, Nova Scotia, so to must act rather promptly on our part.

Yours very truly,

Assistant to Mr. Edicon.

Mylle I dison - gent Dome purel num gent Petry 26

American Agricultural Chemical for Philadelohia, Ja.

Donr Ara:

I om odvisod by our Carbolic Division but on Seb. 17th they received from you Filladelphia tenic our Hr. 19, display; bill for which called for 95,600 lbm elember acid, "to however found it impossible to empty this our thereughly became the residue consisted of a kind of rad, the mount of which the residue consisted of a kind of rad, the mount of which least part of this residue out but did not succeed, notwithest the application of stems to the our for covered hours and they advise so that the residue appeared to be northern and they advise so that the residue appeared to be northern and they advise so that the residue appeared to be northern and they advise so that the what which will remained in the call the call of the control of the call the call of the call of the call the call the call of the call the call of the call the call the call of the call the call the call the call the call of the call the ca

Will you kindly investigate this matter and let me hear from you as early as cossible with reference to the weight of material returned and we will be glad to have proper credit monormalum to adjust the situation.

Yours very truly.

THOMAS A. EDISON, 1110.

ACE.S.

Purchasing Agent.

Copy to Mr. Meadowcroft

Feb. 28th. 1916.

Eastman Modak Company,
Rochester, H. Y. Attention of Mr. Markus.

Gentlemen:

Your favor of the 23rd instant has been received, and in reply we beg to say that we can supply for prompt shipment 225 pounds of Carbolic acid at (1.00 per pound.

Awaiting the favor of your order, we

aro,

Yours very truly,
Edison Laboratory.

Howimin

Feb. 28th. 1916.

Toronto Chemical Company, 18 Wellington Street East, Toronto, Canada.

Gentlemen:

I presume you astend to the selling of the Benzel from the Scult Ste. Marke Plant. If you are not already contracted up to the full limit of production I would like to be advised, as I am in the market for some pure Benzel,

Yours very truly,

All communications should be addressed to "Commanding Officers, Picklinky Arsenat, Docer

POST OFFIC TELEGRAPH EXPRESS

DN WHARTON & NO

DOVER FREIGHT ADDRESS. PICATINNY ARSENAL, N. J. DN WHARTON & NORTHERN

PICATINNY ARSENAL, DOVER, N. J.

Maderach Charach

February 28, 1916.

Thomas A. Edison,

Brange,

New Jersey.

Sir:

Referring to your contract for furnishing this arsenal with 5417 pounds of Phenol per month; ws have recently received an inquiry as to the possibil-ity of increasing our output of the explosive of which your phanol is a constituent material.

Will you kindly inform me whether the As is any prospect of your being able to furnish an additional quantity of approximetely 20,000 pounds per month, for say one year. If there is any prospect of your being in position to surply this quantity will you kindly state about when delivery could be begun and approximately what price per pound would be charged.

This inquiry is entirely tentative as no appropriation has yet been mads, and as certain propositions contemplating alternative methods of producing the Department's high explosives have been presented in such a manner as to necessitate soms comparative studies of costs, as well as feasibility, before a decision as to methods of procurement can be made.

ht.Gol., Ord. Dept., U.S.A.,

JOYES - John LV

ALL COMMUNICATIONS SHOULD BE ADDRESSED TO J P MORGAN & CO. EXPORT GEPARTMENT

J. P. MORGAN & COMPANY

EXPORT DEPARTMENT

TELEPHONE HANDVER 5180

NEW YORK, Pebruary 28, 1916

Thomas A. Edison, Esq.,

Orange, II. J.

Dear Sir:

se have duly received your letter of February 22nd in regard to the contract between yourcelf and His Erttannic Lajesty's Toverment for the output of toluel from your plant at the Cambria Steel Company's morks at Johnstown, Pa.

We do not understand your statement that this contract expired on the 24th instant. It was our understanding from correspondence and conversations had with you on this subject that the plant in question was not in operation until after "ay let, 1915, which understanding would seem to be confirmed by your letter of August 12th, 1915 to Er. Stettinius in which you stated that your entire output until May let, 1916 was taken under your contract with the "ritish Noverment. To s'all be glad also to receive further advices in the matter because our records show that no deliveries were made under the contract until late in June of luct year and then only in small quantities.

Awaiting further information from you in the matter,

we are,

Very truly yearly truly gr

ALLAN R. BROWN

STRAUSS & HEDGES 12 BROADWAY

NEW YORK TELEPHONES 2357 ENGAD

February 28, 1916

Laboratory of Thomas A. Edison,

Orange, N. J.

Gentlemen:

Attention of Mr. Wm. H. Kendoweroft

We are in receipt of your letter of the 26th instant, and were today favored by a visit of Er. John R. Myers with whom we discussed in detail the benzol situation.

From all the facts that we have been able to adduce, we feel quite confident that you are perfectly safe in continuing to enter your benzol at the dutiable value of 59-1/2¢ as heretofore.

In the meantime Er. Hyers will attempt to get further detailed information from Lr. McHaughton of the Dominion Iron & Steel Co. and will communicate such facts to us if, in his judgment, the facts warrant any change in your present practice.

JFS/M

My General south for ab g hour ment of the Breton ab the Breton ab the Breton ab the Breton ab the Breton B

Dear Sir:

Have entered a competitive contest with a paper on the subject: Can a permanently successful by Industry be established in the United States?

I would like very much to get your answers on the following questions: "ill you continue to manufacture Carbolic acid after the war eleccific these re to manufacture at home than to import the you believe that a protective tariff of 30% ad valorem and 7% center arcelific duties would compensate the country thru

questions: Fill you ontinue to manufacture Carbolic acid after the mar closcoffs it cheaper to samufacture at home than to import? Do you belevie that a protective turiff of 50; at valorem and 7½ cents specific duties would compensate the country thru the development of the coal tar industry enough to off set the rise in the price of textiles! Will the home samufacture of such intermediates as Phenol and Toluci furnish a stronger barie of preparetness for this nation in time of war, Tould it be an economic measure to have these factories running in time of peage as dye factories?

Am enclosing stamp to cover reply. Thanking you in advance for any favors you may show.

(7538)

I am
Yours truly,

923 8 Sanborn Ave.,

mannorn Ave.,

Mitchell,

Com have been free the serie

Com have been almost mything

buil armoins - The feart

Destrophy of the control from

the the the Common of Mill per april

Lives o alcoof freelang, it had

no armie

2/29/16



ar. inck:

i understand that the uniling (opertion) till come under that jurisdiction.

to have a frequent interessage of letters and comprands sottoon this office and the Létion accepted, only, Cyrbolic Division, indiano that and accept that is at theorland. For momenta are usually a fied up in envelopes addrocted to the proper formed in these various divisions and whents, language them delivered to the Malling Popartment for distribution.

lee delege in delivering these retters and memoranda have become simply catrogour. It is not better three days to get a monoranium from this office to the honol or unline classes. We have marrouly oscaped periods less to or. Editor by reason of those delays. For instance, less tatarday i tent a memorandum of instructions to the unline less, everying a transmission amounting to over \$2.00. At this writing (11 o'clock Chooses morning) this memorandum has not jet soon received.

. ಟಿ. ಮುಖನ್ ರಿ.೨೬೪ .

c.c. to Edison Chomical torks, Carbolic Division and aniline Plent.

You lotter Check your Dynometers on few on to see They are not off

Coantro 6 Sulphounton should not your 4600 lbs Ding Bengue sulphounde Soda With 6 sulphonations their

Thouse theo to May Mason Your yields of Phenol do not check up with fusions at all You should in 4 daips have got 31000 phenol distilled, whereas the neutralyations viceo you only got 32331 Gude as this is only 71% pure

You are Loving somewhere

Also want to Call your allenton to ancel account of white such you were yelling - Only 6% Whereas & Chink you should get 10% or more tetter watch this -

4600-lbs Prengusulfundson uchudad is white Scall parode i about Scall parode i Benguesulfunds Was Gurs 1550 lbs of pure destilled Thenal - you loss some to Frengolalor -

Edison General File Series 1916. Chemicals (E-16-16) March HENRY W. EATON, PRESIDENT

D.W. HOYT, VICE PRESIDENT



EVARTS-TREMAINE-FLICKER CO. GENERAL AGENTS 806-813 WILLIAMSON SLDG. PHONES, BELL MAIN 2183

CUY, CENTRAL 1934

GLOBE INDEMNITY COMPAN

Day we become to COMPAN March 1, 1916.

Mr. Thomas A. Edison, Inc., Orange, N. J.

Gentlemen:

We understand that you manufacture coal-tar crudes and anilined dyes, and we presume that in the process of manufacturing, you use a vessel known as a nitrator.

We are interested in nitrators from an insurance standpoint, and are anxious to know something about the hazards connected with the use of these nitrators. Insurance Companies generally look upon these nitrators as a very hazardous proposition, but our personal views are comewhat to the contrary.

We believe the serious explosions that have occurred in connection with their use, have been largely from outside causes rather than from inside. In other words have you known of any of these nitrators to blow up, so to speak from gases, or causes generated from coal-tar dye stuffs.

Any information that you might be able to give us on the subject would be appreciated.

Yours very truly,

THE EVARTS-TREMAINE-FLICKER CO.

JWH/DS

American Oil & Supply Company, Oils, Greases, Acids, Chemicals, 52, 54, 56 Lafayette Street,

Newark, N. J., March 2nd. 1916.

Mr. Thos. A. Edieon, Orange, N. J.

Dear Sir:-

Referring to the delays in deliveries of Acids and other raw materials since October of last year, we beg to say as follows:

As you are aware, there was a tramendous disturbance of the capacity of the reilroad to deliver freight during Hovember and December, 191L, and also during the two months of this year. This was due to the fact that the railroad lines were congested with freight that could not be delivered because their terminal tracks were filled up with an enormous number of cars containing war munitions and other materials for export, which could not be discharged because of the look of shipe to take them away.

This congestion has been so great during the last four months that a great many of the relirond companies ere obliged to lay embargoes and they would not receive freight at a great number of points because they could not possibly make deliveries.

This railroad congestion and these embargoes during the last four months have seriously inconvenienced us and all other manufacturers, all of whom were unable to obtain the raw materials necessary for the manufacture of their various commonitations.

Heither, you, nor we, nor any other manufacturer could possibly have done anything to make the conditions any better, and subsequently we have all had to suffer for the above reasons.

Yours very truly, (signed) Wm. F. Hoffman. Treas.

A. M. WOOD & COMPANY, INC.

MELTING STOCK OW PHOSPHORUS SCRAP, ORES

IRON AND STEEL

RESIDUES PECIALTIES CINDERS

COMMERCIAL TRUST BUILDING PHILADELPHIA

W. H. Meadowcroft.Esq.

Thomas A. Edison, Esq., Orange, N. J.

Dear Mr. Meadowcroft:-

r you to the converted and the

I beg to refer you to the conversation had at your Office relative to your Residue from had at your Office relative to your Residue from Boringe used in your Aniine Plant, and advise that we have succeeded in inducing one of our good Durnace will pays mothing for the sending, but will have a chance on the freight. We would suggest that you corder two battleehip care loaded at your earliest convenience, and you may turn them over to the Agent at Bliver Lack, N.J., For Cisposal orders from us.

whe have reason to believe that after the Furnace tries out this smudge, that they will be able to make a price on your entire production. They inform us they have used the residue from some other factors are not the factor of the material was insufficient to pay even the freight we think yours averages better; it is at least worth a trial, and in view of having committed ourselves in the premises, we true this satter will have your best attention, and we now anticipate your advices when lits possible for you to ship the cars. Ws have reason to believe that after

With best regards and wishes,

Respectfully yours.

ajh/hes

Many thanke for the ohsoks. We think from now on your Accounting Department will take good care of us.

TRIMPHONE JOHN 6248

T. J. PARKER

CHEMICALS
100 WILLIAM STREET

NEW YORK

(1239)

March 6, 1916.

Mr. William H. Meadowcroft, C/o Thomas A. Edison, Orange, N.J.

Dear Mr. Meadoweroft:-

Jay we have no

troubles in producing

berger, who is a son of Sulzberger the packer, and a skilled chemist, asks me to bring to the attention of Mr. Raison a method that he has devised for the production of Mr. Raison a method that he has devised for the production of Mcallie Mickel in a finely divided condition 2 from its Salts, as for instance the Sulphate of Mickel.

He uses Hydrazin. Hydrazin has been suggested for this purpose by the German Chemist Rasig, and I sm informed is very efficient.

Dr. Sulzberger's invention applies to the manufacture of Hydrazin, which he claims to be able to manufacture very cheaply; in fact, at a nominal cost.

Nickel from its Salts in a very finely divided condition would interest Mr. Edison, I would like to take it up with you further. If not, please advise, and I will tell Dr. Sulzberger.

FURTHER: Dr. Sulzberger states he can produce a mixture of Metallic Copper and Metallic Mickel in this very finely divided condition, which may also interest Mr. Balson.

Yours very truly,

TJP:CH.

V. Rawn

Mi. Edison

Barrett Mife Co. called the His morning and asterd if the wanted any open Benzel. I said no, but we might be witnessed in some contract benzel. They said they might be able to be us have some. I said we would let them Know today or tomorrow.

Meaboweeoff hoch 7/16

a Gyes (210

[ATTACHMENT/ENCLOSURE]

Bause Rangol Sept 1 to 3/6/16 Milwanter C + 9. 122.933 In 134.257 46. 783 90% 14. 765 Woodward Im Johnstown Recipce the following is the quantity deliners from Sept 1 to march y - reduced to days: Johnstown - 333 gals a tay Deminien - 591 Noosevend . milwanter - 738 · Total 2505 gallons a day from Sept. 1 to - model 9

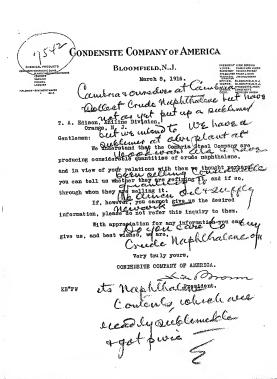
[ATTACHMENT/ENCLOSURE]

Вензов

Beingel from our plan	h er mider	cov	ract.
The can count on follow from now until of	eveng.		
Journstown	333 galu 8113 "	. a	iay "
Lominion (insuling newcom	had: 833 ". 1000 "	"	*
Milwandere Jolac	3,009 "	۰	~
From apric 1 to June	<i>I</i> -:	,	
Johnstown	333 ynis 843 "	per "	
Moodwart 1175	ડુકેક ″		"
milwanter	1000 "		
Hoffman (new contract	4.009 "		

[ATTACHMENT/ENCLOSURE]

June 1 to July 1	
Johnstown	333 gals a day
Woodward	843 " " "
Deminion	633 " " "
Milwankee	600 - " " "
Hoffman	1000 " " "
Periode the sees continued are will god the other was guilton from Millsmarker. July 1 to Dec 31	2609. 4009 5009
John John Mardward	333 gals a day
Dominion	£35 " "
Heff wood Milwowkee	3009
0	3/5
Beisol needed 1020.	gals a day
#2 Phonol 1650	" " "
Kammer hoff 1352 4022	the state of the s
There are about 65.000	gatterns on the



N. Ood. 91.

· ADDRESS NAVAL INSPECTOR OF POWDER, EAST COAST.

OFFICE OF NAVAL INSPECTOR OF POWDER, EAST COAST,

At Post Office Building,

Jersey City, N.J., MAR -8 1916

225-E

Subject: Phenol - method of packing.

Sir:-

1. When the Inspector last visited your Works, he found the phenol, manufactured under Cont. No. 25253, for the Mary Department, packed and ready for shipment, except for the crating. In other works, the drums were sealed.

2. The drums horstofore, have been sealed by soldering over the fills mole, in one end of the drum, a sheet motal disk. The drums which the impactor selected for sampling were so sealed on his arrival, and were opened in his pressure. Inspection showed a few drops of solder in the phenol, under the filling hole, of each of the ears which had been opened.

- piorate, the inspector considers the presence of solder in the phenol is used for the manufacture of ammonium nol highly objectionable, as this solder, composed partly of ionic least may find its way to that stage of the manufacture and is produced to the sold is produced to the sold is produced to the sold of the so
- cided that as the phenol existed in a hard orgatalline form, that the only object of scaling the filling hole was to prevent foreign matter getting into the drums, and that wooden plugs firmly described in the filling hole would answer the purpose quite as well as the original method of scaling. Mr. Kemmerhoff agreed to scal the oans in this manner in the future.
- 5. The Inspector has reported his action to the Bureau with the statement that in the future he would reject any phenol sealed as heretofore, and has today received a letter from the Bureau upholding him in this matter.

Hemberly.

-2-

Respectfully,

Lieut.Comdr. U.S.Nevy, Nevel Inspector of Powder, E.C.

Mr. M.R. Hutchison, c/o Laboratory of Thos. A. Edison, Inc., Orenge, N.J. ALL COMMUNICATIONS SHOULD BE ADDRESSED TO J. P. MORGAN & CO. EXPORT DEPARTMENT

J. P. MORGAN & COMPANY EXPORT DEPARTMENT

23 WALL STREET

TELEPHONE HANOVER BIBO

NEW YORK, March 8, 1916.

Mr. Thomas A. Edison, Orangs, New Jersey.

Dear Sir:

We have your letter of March 2nd, and beg to state that we are unable to accept as final the statements made therein. From information that we have received we were under the impression that your plant was not in operation until our following the property of the property of the count of the count of toluol you agreed to deliver, nearly, 300 gallons, more or less, per day until an addition could be made to your plant, and 400 gallons per day after such salely, 300 gallons, more or less, per day until an addition could be made to your plant, and 400 gallons per day after such salely, 300 gallons, more or less, per day until an addition ould be made to your plant, and 400 gallons per day after such addition was made, which it is necessary that we advise our principale fully concerning the status of this contract, we request you to give us at once a detailed statement of the information and facts on which you have your attached that the plant began operation on February eduring the time you consider it was being used for the purpose of making toluol for the Firtish Government. This statement should give us sufficient facts as to the plant itself and the number of men you had engaged in working in it; so that our fact the plant and the extent to which the capacity was utilized. The plant and the extent to which the capacity was utilized the plant can produce daily at the present time, so that we may at the same time advise the Government at what rate you could continue to make deliverish under the contract, and how deliverish to deliverish be delivered.

We talked this morning over the telephons with your Assistant, Mr. Neadoworoft, asking that he arrange that either you or himself come to see us, as in our opinion this would be the sasiest and best way from both your point of view and our of handling this situation. Mr. Neadoworoft at the time was not disposed to adopt this course. If on reconsideration he should be inclined so to do, we would be very glad to see either you or him.

Yours very truly,

EXPORT DEPARTMENT,

Muller

March 10th. 1916.

Mr. Meadowcroft:

ANALYSIS OF IRON OXIDE OF ANILINE PLANT.

Moisture and organic matter 3.5
Fe0 22.919
Fe203 62.367
Fe 6.678

Insoluble 3.88

Total 99.344

JOHN V. MILLER.

Mr. Edison is the mederical from mederical from mederical for the first that have been the first than a form of the first

March 10th. 1916.

Globe Indomnity Company, Cleveland, Ohio.

Gentlemen:

I have received your favor of the first instant, in thich you rofer to the process of nitrating in the manufacture of aniline Jil, etc.

Let me say in real; that I have several chemical works, and that we have made thousands of nitrations without any accident.

Yours very truly,

Earch loth. 1916.

Mr. A. J. Hofmenn, Secretary, A. M. Cood & Company, Inc., Commercial Trust Building, Philadelphia, Pa.

Bear Er. Hofmann:

Please excuse the delay in replying to you favor of the third instant concerning the residue from the Iron Borings
and in our antiline Flant. Since I can you
on the subject, there has opened up a possibility of utilizing this taterial for other
purposes, so I small so unable to ship you
the two battleship cars at the present time.
It seems possible that we may find a profitable opportunity of atilizing this by-product.

Yours very traly,

Assistant to Ar. Edison.

Calle Address Milsui, N. S.

MINISTUL & CO. LIMITED

(Mitsui Bussan Kaisha, Ltd.)

LONDON MOUKOEN

TOKIO YOKOHAMA YOKOSUKA KODE OSAKA NAGASAKI MOUI KUCHINOTZU NIIGATA

TSURUGA

WAKAMATSU KARATSU KURE SASERO MAIZURU MUDOBAN AWOMORI MIYAKO SUNAGAWA

DALNY TIELING TIENTSIN TAIPEH CHEFOO HANKOW CANTON AMOY FOOCHOW CHOSHUN HARDIN VLADIVOSTOR

SECUL CHEMULPO ANTOHKEN KWANCHINTU BANGKOK RANGOON SOURABAIA CALCUTTA

HAMBURG LYON PETROGRAG DALLAS SAN FRANCISCO PORTLAND BOMBAY SINGAPORE

25 Madison Shonue.

New York March 10,

Thomas A. Edison, Inc., Orange, N. J.

Attention of ir. T. H. Bealewcorft,

Dear Sir:-

We are in receipt of a letter from Germania Hosiery Mills, copy of which we are enclosing herewith, and which is self-explanatory.

We are simply transmitting the same over to you and will await your instruction.

Yours very truly

Meadocraft Say we do not understand his letter. The aid is the same at all times, he must be using something a hour all he must be using something a changed short get the black that how a changed short get the black that his attention to the fact Five want to Call his attention to the fact We want to Call his attention or rooms that I his Ventilation is and or rooms will cause the dipoto two blue also that all andre Oil works have found theorem with a change of clothes so they never they are made to wear in the factory + they are made to weard. Their hands thoroughly before zaking their hands thoroughly before zaking dunch

Andrew works have broable with poisoning of their men in summer because the Vapor of andre comes of the oil strong when Hat of his degracion should be as Cold our passeble quall

[ATTACHMENT/ENCLOSURE]

COPY

MITSUI & CO., LTD., NEW YORK

March 8, 1916.

IMPORTANT

The Mitsui Co., New York City.

Gentlemen:-

We beg to inform you that drum of 011 No. 713 containing 445 pounds of Aniline 011 was very unsatisfactory. It does the work all right but the action of the chemicals is altogether different. In my knowledge of dyeing it must be the Cynate of Pottasium which reacts in exidation, and makes all hands mick. They are gotting blue lips and the eyes fall in and after a short time they have to give up working on same. I thought I would let you know in time as this is very dangerious to the help and if it should get out amongst Covernment Mill Inspectors in my opinion they would get after me for using all these chemicals at once.

Your oil has been very good and have had no oomplaint before from the help.

Please let me know what you can do in the matter by return of mail, and oblige,

Yours very truly,

GERMANIA HOSIERY MIL'S,

(gigned) Harry Saefeit.

Takamine Laboratory (Inc.) Equitable Building New York Now 150 A. When the Mark 150 Able to the land the land to the land

BUSINESS DEPARTMENT

Thos. A. Edison, Inc.,

orange, H. J.

Deer Sir :-

Attention Mr. L. T. Meadowcroft

we have before us your letter of Sept. 27th, 1915 regarding Acetanilid. You stated at that time that you were not in a position to quote on the article but felt you would be able to supply the trade after January, 1916.

we would like to get your figure on a contract for one ton per month for six months. The U.S.P. Crystal article is preferrea.

Thanking you for a prompt reply, we remain,

very truly yours,

TAKAMINE LABORADORY, 1hc.

JFR/U

Mr. Christerson : This ?

COPY

CAMBRIA STEEL COMPANY Office of the Comptroller

Johnstown, Pa. March 13th, 1916.

SUBJECT: - Sales - Shipments, Toluol.

Dear Sir:

In compliance with request contained in your letter of the loth instant, we are pleased to advise that the following shipments of Tolucl were made from the Edison Bensol Plant at our works from the beginning up to the present time:-

Date of Shipment	Our Invoice No.	No. of Gallons
6/18/15 7/6/15 7/29/15 7/21/15 8/26/15 9/18/15 10/21/15 11/25/15 1/14/16	K-889 K-1058 K-1298 K-1232 K-1561 K-1914 K-2360 K-2760 K-171	2 916 2 867 2 542 23 3 664 3 192 4 406 4 936 4 026
		00 E79

Trusting this is the information you desire, we are Yours truly,

CAMBRIA STEEL COMPANY,

H. W. MOATEER

comptroller.

To

Thomas A. Edison, Esquire, Orange, N. J.

Carbolic better corrange so they Weadorraft We should have larger deliveries of a lir. Kammerhoff in order that we may gor stock of Resin on hand.

to when two have about 10 Runs about of month to mote our Tests.

Resin one 1 Resin on the status Resin one 1 Resin on Mr. Edison:-Phenol from Mr. Kammerhoff in order that we may butors were carry a larger stock of Resin on hand. At present we have about 10 Runs ahead of the Resid our requirements, but this quantity does not give us margin enough to make our Tests to determine whether the Resin can be used for Varnish. We have approximately 17000 Lbs. of Recovered Phenol, which is now being tested and which if O.K. will enable us to increase our Stook of Resin without drawing on the Phenol Plant for New Stock, but if it is found unsuitable for the Manufacture of Varnish, we may experience some dolay in obtaining the proper Resin from the Runs on hand. We should have at least 20 Runs on hand to test to prevent any dolay, and as Er. Kammerhoff will not increase his deliveries without your sanction, I would recommend that he be authorized to deliver 10,000 Lbs. of Phenol in excess of present deliveries, in order to give us a safe margin to work on-7117 Markens 12 Deline 17:00 las por 19 thered was a stranger to love make Resent must for next her makes to her The act Riem how measures at worthern testing it Towner But the Material much had some when & ask to the Me Account Many mount had some when & care to for Tarmin . Come we were to he can the for Tarmin . The were well - sea with to mean Many to the well with to mean the care the weather to mean the weather the got along with a gave high to have

March 14th. 1916

Mr. Emory:

at various times to mave had sample lots of crude Jenzel distilled by Mr. Resmorhoff in our Jensel Still at the Carbelle Division.

Then crude Bonsol it distilled, we obtain several other groducts, such as Bonsol Heads, Bonsol Loniduc, Toluci Heads, etc. These ere maketed for une, for certain purposes, in place of Bensol, which is used by in. Hehr in the manufacture of blue amborol records, and by the Europe Battery Company for various surposes.

I had sumples cont to me of the residues obtained by Mr. Kammerhoff, and cubmitted them to Mr. Mehr and Mr. Bachman to see if they could use them. These residues are as follows:

Zind of mater	rial Drum no.	Contents not 1bc.	Total lbs.
Benzol Hoads	141 87 25049	765 1::4 683	1582
Heavy distill	late 3	272	272
Benzol residu	1e 2997-A	798	798
Toluol heads	8132-B tt 123	737 744 773	2514

fr. Hohr says that he can use frume gl41, 67 and 25049. Er. Sechman cays that he can use the other drume named in the list.

Lill you plosse, therefore, have an order issued to Er.

Kemmerhoff to send up to Er. Hehr drums 141, 67, and 20049, and to
Er. Bechmen on account of the Editor Storego Esttery Company drums
3, 2997., 81329, tt and 133. Those should be utilied at the same
price as if they acro Benzol, thich Mr. Kummerhoff is in the habit
of surelyier to both divisions.

W. T. MEADOWCHOFT.

Purchasing Service Department Memorandum No.

6 also hi

March 14, 1916.

9

Mr. Kammerhoff.

Referring to correspondance with Grasselli Chemical Co. in re shipments of milharite coid, they claim that their chief difficulty is eaused by dolay of tuck cars in trensit, and ir. Edison personally has written a measurants on the subject today, stating that we have planty of storage at our works and chould be able to release the emptices the control to one.

Will you therefore please see that tank care reaching you are made only at the earliest possible nemant, and in this connection it would be intercesting to know just the service we are able to give in this regard so that! will be in position to sawure frameoili that their cars are handled immediately and along definite lines.

A.C.Emery

ACE.S.

Copy to Mr. T. A. Edison.

Medearaft

Sichound more parlements to

#2 plantolorage Hawever

Rammuhaf has Lats

ef Horage also

CONDENSITE COMPANY OF AMERICA

BLOOMFIELD, N.J.

March 15, 1916

Mr. Thomas A. Edison, Orange, N. J.

Dear Sir:

We have made a thorough manufacturing test of crude naphthalene and find that we cannot use it without entailing a duplication of both chlorinating and distilling processes, and this involves an expense and a reduced productive capacity of our plant that makes the operation prohibitive.

We are very much interested in learning that you are turning out sublimed naphthalene at Woodward and expect to do so at the Cambria plant. What arrangement could we make with you for a continuous supply of refined naphthalene? If you have an excess production at Woodward for the sale of which you have not contracted, we might be able to handle it all or a considerable portion of it. If this is the case, we would be glad to know how much you would be in a position to offer from that point in monthly deliveries and over what length of time and at what price you would contract.

We are just completing the enlargement of our Wyandotte plant and will soon be in position to handle increased quantities of naphthalene, so wish to close this matterup at once if possible: in fact we have a buyer on the road

annien have marrier

CONDENSITE COMPANY OF AMERICA

Thomas A. Edison.

now and for these reasons if this matter interests you we would appreciate a reply at your earliest convenience.

The writer will be glad to go over to Orange if you are prepared to make us a proposition.

Very truly yours, CONDENSITE COMPANY OF AMERICA.

Side Poroma

KB*FW



IS EAST TWELFTH STREET PHONE 3821 STUYVESANT NEAR FIFTH AVE.

NEW YORK

March 15, 1916,

Para

National Phonograph Company, 122 West St. New York City.

Gentlemen:

Your favor of the 14th instant to hard, for which we thank you, and pursuant to your request, we are submitting herewith a sample of our

PARAPHENYLENEDI AMINE

which we offer to-day, subject to prior sale, at \$6.00 per pound, F. O. B. our works, Harrison, New Jersey, net 10 days.

If you would be interested in a contract for a specified quantity, to be taken in regular / monthly deliveries during a period of twelve months, we should be pleased to take up with you the matter of contract.

The unsold portion of our output is limited. and we respectfully request that you inform us at once if our product is of interest.

Awaiting your further favors, we are

Very truly yours,

This is prechably our SNISS COTOLIES COURTHIN.

Pavia - at \$400 & result at \$500.

REGITS \$9-9000 Pronuss

Encl.

Bingal

Lr. Charles Edison.

Earch 17, 1916.

Er. Condowroft has banded to his monormalan to you of faurch 17th with your motation theorem with reference to accepting Er. Billon's proposal covering Elicanizes beneal at a price of approximately 67 1/4 cents delivered. Er. Icadowroft has exted to not to corruntents with Er. Billon as he has covered the situation fully with him and I am therefore deponding upon his statement in this regard and amuting receipt of forcal contract, which he assures no will be forthcoming from Er.

Just as quickly as the contract is at kend I will take
the matter up and I understand that this contract is to be
excepted by you individually.

A.C. Empry.

ACE-S.

Come to Ur. Handamaratt.

MAR 20 101

your

SET 1 THE PERENCE.

boulstic

MIDDLESEX CHEMICAL COMPANY, INC. OFFICE OF WORKS MANAGER

CHESTER, CONN.

VICTOR L. KING WORKS MANAGER TELEPHONE DEEP RIVER 30

March 17, 1916.

Thomas A. Edison, Inc., West Orange, H.J.

Dear Mr. Meadowcroft .-

I have ten tone of spot Phenol for immediate delivery. I don't know whether Mr. Edison runs smort or not, but if you would like to make an offer for this Paenel I will be glad to receive your wire.

With all personal regards to Ar. Edison and yourself,

Yours very truly,

vek/h

(7689)

Mus

Silver Lace, M. J.

Disc Record Division.

P. PECIOL FOR THE WAY DEPARTMENT

Following My, Edison's order of yesterday, we will take base the Fhencel which we distillout of the so-called "Resovered Phonol", will re-distill it, and not return it to you but use it for some other purpose.

The normal P. Phonol which we mainfacture for your Division will from now on be distilled twice instead of only once, so as to avoid impurities. I expect that it will be possible to start delivary of twice distilled P. Phonol beginning with the end of next week, Saturday, the 25th. For the coming wook I hope you will be in a position to use the Phonol numericatured in the provious way by distilling it once only. If, however, you want to start uning twice distilled Phonol right sawny, I would have to ask you for a few days' adelay, as then we would have to make you for a few days' adelay, as then we would have to make you for a few days' and are adelay, as then we would have to make the Phonol new kept ready for you, out of the case and re-distillite.

H. HALLERSONE

C.C. to Hossrs. T. A. Edison and E. Davis.

Busol

CLARENCE DILLON 28 NASSAU STREET NEW YORK

(7686)

March 20,1916

Dear Mr. Edison:

I confirm sale to you as per my telephone conversation with Mr. Meadowcraft on benzel as follows:

On behalf of the Milwaukee Coke & Gas Company 500 gallons per day from May 15 to June 30 1916 at \$.70 per gallon fob Milwaukee.

The Hilwaukee Coko & Gan Co. will also furnish you any spare benzol they may have from May let to May 15th, but they do not anticipate that they will be able to furnish you anything like the full 500 gallons per day for the first half of May.

Company of Milwaukee (this company is controlled to the same people that control the tilwaukee (bit of company is controlled to the same people that control the tilwaukee Oake & Gas Co. and the Horthwestern Iron Co.; OGO gallons of at beneal per day from Carl Ton Co.; OGO gallons of at people of the control to the control to the produced by the coke vene now being built by the Lillishaman Company at Canal Dover, and they estimate that the beneal will be forthconfur some time in Lunci to the told may be companied to the control to the contro

You understand that the Hemport Hydro-Carbon Co. have bought this bennel from LiK, Hanna & Co. (Min are now in turn solling it to you. The specifications of this bennel are just the same as on the bennel you have been been are the Milwaukee Coke & Gas Co.

I am sending a copy of this letter to Milwaukee today and forms of contract will be received in due course, when I will send them to you.

Very truly yours,

Thomas A. Edison, Esq. Orange, W.J. CD JS Mumclion-

D BE ADDRESSED TO J P MORGAN & CD. EXPORT DEPARTMENT

J. P. MORGAN & COMPANY

EXPORT DEPARTMENT

28 WALL STREET

Maadocroft -

TELEPHONE HANGVER SIBO

NEW YORK, March 20, 1916.

Thomas A. Edison, Esq., Orange, New Jerscy.

get all the data you can 4 70

Dear Sir:-

Lover a personally Expian the whol We thank you for your letter of Earch leth and the in-formation submitted therewith relative to your toluol contract The with the British Government. In order to give our principals a complete record on this matter we should like information on

two further points: Pirst: It will be necessary to verify the date on which the plant went into active operation, and, as we have no means at our command to obtain such verification, will you be good enough to indicate how it can hae obtained. to indicate how it can be obtained.

In connection with the statement in your letter that you did not agree to deliver any specified amount of toluol, we direct your attention to the contract which recited that the daily shipments would be 320 gallons more or less until the addition to the plant was completed, after which they would amount the same of t Second: thun to me plant was completed, siver which they would amount to 480 callons more or less. This, of course, mean that approximately the number of gallons specified were to be shipped each day, and as you say the addition was completed at the same time as the plant itself, the Government should have received approximate-the plant itself, the Government should have received approximately 480 gallons per day for one year. This would mean that the Government would expect to receive approximately 170,000 gallons whereas the total deliveries made were slightly in excess of 28,000 gallons. We would like an explanation as to the discrepancy in the emounts.

Thanking you in advance for giving us this information at an early date, we are,

Yours very truly,

EXPORT DEPARTMENT,

By A Cereaus

mmunications should be addressed to "Commanding Officers, Picatinny Arsenat, Dover, N. J."

POST OFFICE, TELEGRAPH, EXPRESS. FREIC PICATINNY ARBEI

PICATINNY ARSENAL DOVER, N. J.

March 20th, 1916.

Thomas A. Edison, Orange, N.J.

> SUBJECT: Phenol Method of Packing.

Sir:

Replying to your letter of the 9th inst., we see ne objection to your proposal to use wooden plugs for closing the filling holes in phenol drums provided these plugs could be kept in the holes. As the drums are made of such light weight material it would seem very unlikely that plugs could be made to hold unless a fastening strip of some sort were placed over them to keep them in place.

Some time ago we complained of the expense of resealing and crating for return to you the galvanized iron drums in which you have been delivering phenol to this arsenal.

At that time you promised to look into the question as to whether it was really profitable to have these drums returned to you but no final reply was ever reosived in the matter.

The contract contemplated shipment in steel drums with screw plug and requiring no crating, worth about \$10.00 each. Delivery in such drums would save us considerable expense for re-sealing and orating.

Please advise whether we may scrap the galvanized drums instead of returning them, unless some more simple way of closing the hole can be devised.

Mr Kammerhoris There we have the said to the said t

IA. Col., Ord. Dept., Commanding.

Silver Lake, N. J., Narch 25th, 1916.

Dr. Mondoweroft:

PICATIBNY ARSEMAL

Pleating seems to be arraid that the wooden plugs which we, according to licut, domander Hisberty's advice, Whill from now on was, will slip out of their holes. To have taken this damper into consideration, and think we can eafely ship the came by loaving a slot in the top of our crating where the plug is and than cover that also from clove by short its minds we had on it.

Pleating contions returning the calculated from consin which we dispost them P. Fisson. The greation case up months ego. We tested some of the returned came and find them untight. Shorefore, we informed you that we could not advise using the returned came again but could make use of them in our factory. It really does not seem worth child that Pleating double return any core of times.

inclosed please find the letter from Ficatingy dated March 20th, of which I took a copy.

i. ilignory. II

March 28th, 1916.

Lt. John .. Joyos, Lt. Col., Ord. Dept., U. S. A., Commanding, Ficutinny Arsenal, Dovor, H. J.

SUBJECT: Phenol Method of Packing.

Sir:

Your favor of the 20th instant to Mr. Edison was received. He is away in Florida on a few weeks vacation.

It the magnitume, I can reply for him as I am familiar : ith those matters. In regard to the rooden jetage, our plant reports that they have taken the danger of loss into consideration, and that they can eafely ship the cams by leaving a slot in the top of the crating there the plur is, and then cover that slot from above by a piece of check this which they will mail on the crating. This would seen to be in line inth your cargostion.

You will be gled to learn that you need not return the galvanized from drams to us any more. You may, therefore, put them in the scrap heap.

"The reason that to have made all shipwarts of themel in new gulvanized from draws: is because it. Edican ten auxious to have the material reach you with the least reasible danger of contamination. If the ordinary steel draws with serve plus were used, they sould in the booms more or less rusty inclde. In 251son was, reaches for each shipment, the extra exponse of runnishing a new package for each shipment.

hespectfully yours.

Astistant to Mr. Edison.

Jind for 10 lb amples

Faken from 20 or 30 5 29

ron & Stool Company, to get the 10 lbs

Attention to antique to get the 10 lbs Dominion Iron & Steel Company, Sydney, Cape Broton, want to see how much

Gontlemen: Referring to our recent correspondence in regard

to Hanhtheline, I would say that Hr. Edicon has left today for a few weeks vacation in Florida. Before leaving, he wished me to write to you to ask how much of the crude (Herhthaline you produced daily, and approximately how much you have alroady on hand.

If you will kindly send this information, I will submit it to him. He thinks he may be able to make some suggestions to you about refining it.

Yours very truly,

Min Ediness He where some house of the forest of and head of the forest assistant to Mr. Edison.

March 21st. 1916.

Mr. V. L. King, 5 Middlecex Chemical Co. Inc., Checter, Conn.

Dear Mr. King:

Your favor of the 17th instant was received only this morning, a fer minutes before it. Edison left for Floride for a few tooks question. I showed him the letter, and he wished me to say that we are keeping up with our contract requirements on Phenol, and he would not be interested in buying any epot stuff, although he wished me to express his appreciation of the courtesy in offering it.

with kind regards, I remain, Yours very truly,

Exreh Lind. 1916.

Takamine Laboratory, Inc., Equitable Building, Ecw York City.

attention of Er. J. F. Hiddell.

Gentlemen:

le must sek you to kindly perdon the delar in reglying to your favor of the list instant. Mr. Edison was exceedingly busy prior to his deporture for floride, but he took this matter up with me just before he left.

Yours very truly,

assistant to Er. Edison.

A. M. WOOD & COMPANY, INC. MELTING STOCK LOW PHOS PHORUS SCRAP, ORES IRON AND STEEL COMMERCIAL TRUST BUILDING BELL TELEPHONE GONNEGTION PHILADELPHIA 6- cause ver 2 am 13 tim They don't understand Um. H. Meadowcroft, Esq., c/o Thomas A. Edison, Esq., Orange, H. John wee In our travels we have ascertained that one of the andline people claim they are resoncentrating the residue from borings after they are used once. Can use it aver again Te know nothing about this business and simply offer you the information we have received. These coople use pulverized borings 100 and 300 mesh. They claim at a cost of about The and and mean. They cake as a constraint of the material to make it possible for reasting, and further they are able to continue this practice on the same of or residue so that they can us it at least four times. These continues the continue they can us it at least four times. To be frank with you the writer was amazed to hear this, and as stated above we simply give this for your information. Yours very trul A. M. WOOD & COMPANY, Inc. ajh'fof

Silver Lake, M. J., Harch 22nd, 1916.

ir. Mondoweroft:

P. PHEMOL YOR E. R. S'UIBB & SONS.

I beg to inform you that to-day we sent four sample bottles to M. R. Squibb & Sons, from Cana Ros. 359, 360, 361 and 362.

This is the first lot or twice distilled Phonol which we contamples of to Egulbb. Who solidification point to 40.6° contigrade, and I hope that True now on Squibb will find no reason to complain. Total the small of it should not with wint come?

Si.J.

Dilver Lake, M. J., Harch 23rd, 1916.

Er. Headoweroft:

E. R. SQUIBB & SONS Your Romo of Earth 22nd

addressed to you, back with his remarks on it. I constrain this to you with the attached letter of South & Sons, dated March 9th. I also attach hereto their letter dated factor 17th.

morning, Sathb & Sons Will rooter style any Vortice, Sathb & Sons will rooter style any Vortice, 35, 515, 515, 527, 548, 549 and 551. Cherentor they will receive trice distilled P. Romol only. Considering this fact, I beg to savise writing Satibb & Sons in the following source.

so pure that, or instance, the vary careful test made by the U. S. Havy every time remained in accepting our country to U. S. Havy every time remained in accepting our country to mapply. In agile of this, however, 22. Alica can convenient and the country of the

N.Y.

[ATTACHMENT/ENCLOSURE]

Silvor Lako, N. J., March 15th, 1916.

Mr. Meadoworoft:

CARBOLIC ACID FOR E. R. SUGIBB & SONS.

Enclosed I bog to return the letter from E. R. Squibb & Sons, dated March 9th, to which I have to make the following remarks:

We resolved the three small simple bettles, and find that the latter consists of normal white class. We first in the "Francesporate of the United States", page 537, under "Rheell", find Pheell should be kept in dark makes colored, well stopped bettles. Shi seems to include that the "France has a tendency to change its color in time if it is exposed to day light or contribution light. We do not know the there the initially light colored from Squib for the color in the state of the color of the state of the state of the color of the state of the s

is to the question as to sky our Resol has a torslower to becase brownish, whilst other Resol is became to turn pink, we can not give a present say explanation. It seems to up, however, that the difference has its cames in our Fennel being made graphightly. As there is, no cloubt, a cortian difference between the small profit of directly by the distrillation of coal tar most such framed made graphic followy, it is gate obvious that also in regard to discolaring there may be differences between natural and synthetic Framed.

To count that there is a possibility of connection between the kind of discoloration and the way of our momenturing, but hostate to express any special opinion, owing to this complex situation in regard to colors of eyes. It containly seems impossible to detect any difference by a chemical analysis between the three samples for our Phonol sont to us by Squibb. We will, however, try to bring more lightjon this question after we have put our copper will in operation. We will then fill a series of sample bottless with these samples, filled into another colored and in normal bottles, for words opposed to the day light. If we detect any difference in discoloration we will report turber on this question.

Me Richards phenol we have made at Vamous time from you thenol keeps be autifully what often Exposure to dight for Months The trouble is that at our rate of development over improvides are carried over missionesself as in all divisioning to get a saleptication with the USP was obsould bis distilled to don't our competitions will take

Our Eveness away = t would cost

Very little to rectative 5 purps

Hence = Hook some of Haffman

pland he blows aver a your

distilled of classification

globule of donk Color which

would be disables = This is

would b

[ATTACHMENT/ENCLOSURE]



E:R:SQUIBB & SONS

MANUFACTURING CHEMISTS TO THE MEDICAL PROFESSION SINCE 1858 GENERAL OFFICES 78 & 80 BEEKMAN STREET, NEW YORK CITY. CHEMICAL & PHARMACEUTICAL LABORATORIES, DIRONGLYN, N. Y. RESEARCH & DIOLOGICAL LABORATORIES, NEW TRUNSWICK, N. J.

Nesses T A Religion & Company of the State o

We are sending you by Express three samples of Liquefied Carbolic Acid. This is Acid taken from the drums which you supply us, and liquefied by heat and filtered, and then 10% of water added to keep the Acid in a liquid state. We find that when the Acid is first melted it is cloudy, due we presume to the presence of a stampous ealt, after filtration it has the appearance of the sample marked No.1 At the end of a week it has begun to discolor - sample No.2 and at the end of four weeks it has acquired quite a brownish tint-

We do not know whether your attention has been called to this before but many of our customers complain or this coloration, and we would like to know whether you could make any suggestion by which we might prevent this, or whether you could supply us with Acid which would not change so readily. We have never before had any that assumed this color although we have had Acid that turned pink on exposure. While for many purposes this coloration is not objectionable, still where Pharmacists use it in dispensing prescriptions, it is so regarded. Please let us hear from you at your convenience, and greatly oblige.

For Hay

Supt. E R Squibb & Sons

BFH/E

WESTERN UNION

Form 2159 K

SAN FRANCISCO CALIF MARCH 23-16
WILLIAM H MEADOWCROFT

CARE THOMAS A EDISON ORANGE NJ

WOULD LIKE TO OBTAIN PLANS FOR SYNTHETIC PHENOL PLANT

FROM BENZOL WILLING TO PAY REASONABLE PRICE URGENT FOR LOCAL

MEDICAL AND MANUFACTURING USES GREATLY APPRECIATE YOUR KIND

WIRE

COOPERATION, ANSWER MY EXPENSE.

MARK WOLFSOHN

This is learned from the market with the control of the contro

KEITH CAR COMPANY
PROPLEM GAM BUILDING
155 MOUTH MICHIGAN AVE.
CHICAGO

7903 Janks

Earch 23rd, 1916.

Keep all the Bengol Caro Thorns A. adison. perhaps better get one Extra Com Orange, M.J. Bear Sireour contract 100 with you converte Feith Paul: line care 655, 654, and 655, carries on the 50th day of Pay A. .. 1916. West tereof to are prepared to renew this contract with you for one year at \$75.00 per month from the first day of June, 1916, or we will take the cors buck at the end of the contract period or at any time between now and the termination of the contract, which ever cuits your requirements. Would be very place to hear from you as to what you desire to do in this matter. Yours truly. bellow dearers, print dans M. Edwar of all want all our Bange town In fact! ever President. think it would I Two mere Tank (coerem) 440 *** 4.8.5 Markeine ar Ger beign miss to $\mu^{a^{l}}$ march 27/16 Hiosi , tont DELLE

Dear Ir. Edison: fourthey Can yam not going to I won to J. throw any more Even when yam

I went to J. P. Lorgen & Chupany's place yesterday and had a long talk with ir Keoms, the seems to be taking the place of ir. Stetthius in his absence. There was also present a ir. Vought, the I prisme belongs to the symptogramment (the Export Reportment).

tinned in his obsence. Indee was also present a in. Yought, who is present such to the control of the provided in the provided

Solute, and I explained to them how to the long it took to produce plant there was a great deal of preliming of operating a new plant there was a great deal of preliminary work and that material was necessarily occumulated slowly, especially as it had to be divided up into Grude, 90%, the heads and tails of each distillation, and the subsequent refining, with the heads and tails belonged them, etc., etc.

quantity inserted in the original latter of agreement had really been estimates on your part founded upon the figures given in the outlentle literature, but that we subsequently found that the gases at Johnston did not consin the Toulon you had figured on, and indeed that the Johnstown coal was shormally low in volatility. All this explanation seemed to clear up the tamosphere a great deal.

where the land lay. In a nut-shell, the whole trouble is that the arithe Government took the figures (which you gave in the third paragraph of the contract) literally and figured that they were going to get 250 gallons per day to begin with and 460 gallons per day after the addition had been made to the plant. They multiplicate quantity of color of their book and to the color that when the color of their book are the work of the color of the c

The part that J. F. Morgan & Company feels sore about is that our total deliveries will be only about one-fifth the total quantity which the British Governmont expected to receive from you, and I am of the opinion that they, J. P. Morgan & Company, are being sharply celled to account by reason of this discrepancy.

do to make the deliveries more nearly opproximate. The British Government expected. They spoke of in: Edison's boundless energy, resources, etc., and saidthat surely he would be able to meet them in some way. seemed to me rether thin ice, and it was very current and existing the seemed to me rether thin ice, and it was very current and the seemed to me their thin ice, and it was very current to the present of the seemed to meet the seemed to meet the seemed to meet the seemed to be seened to be seened to see the seemed to be seened to see the seemed to be seened to see the seemed to seemed to see the seemed to see the seemed to see the seemed to seemed to see the seemed to see the seemed to see the seemed to seemed the seemed to see the seemed to seemed to see the seemed to see the seemed to see the seemed to seemed the seemed to see the seemed to seemed the seemed to see the seemed to seemed the seemed to see the seemed to seemed the seemed to seemed the seemed to see the seemed to seemed the seemed to s

as a contract for all the Toluol produced by the plant for one year from the beginning of its operation, and that you "had governed yourself according to the produced by the plant for the contract the state of the contract the sea that you could do, as you had performed your part of the contract end given then the Toluol for a year having considered the contract was more ally you was the contract was more ally your way and you was the position in which was the contract to account the position in which

my words had placed the matter. Of course, I indied he position in which was words had placed the matter. Of course, I indied he had been the first council to infer that I meant, but he did not say to, nor did a bit of the council asked me if I would not communicate with you, and see if you could not devise some way in which something more could be one for the British devise some way in which something more could be one for the British to the course, which is the council and the course of the course, could not true in the course of the course, could not true in the course of the course, could not true be council and the course of the course, could not true be council and the course of the cour

In all our conversation I was observing every word most minutely, but there was not a hint of any kind as to any legal proceedings. There was nothing who tever to indicate that any such thing was in their winds.

There is only one thing that I can think of that we might do for the British Government. We have contracted our Toluol up to May let 1917 to Duront. You will still have eight sendths of 1917 un-contracted for. Even if the war is over long before that the Government will be probably stocking up again on Trinitroton of Intich Government see that it about the only thing we can do, that is, to set as I com Government have the Toluol from May let, 1917 to December Site, 1917, is might also see that sort of a trade littent could make with them for Toluol after December 11st, of this year, when their contract oxpires

I am enclosing the papers with which you can refresh your mind on certain things.

W^uH-lleavowaoff

Enclosures.

[ATTACHMENT/ENCLOSURE]

Feb. 3, 1915.

His Britannic Majesty's Government,

Dear Sirs:

I am now erecting at the Cambria Steel Company's works at Johnstown, Pennsylvania, a plant for absorbing Bensal and Poluol from the gaces of the Coke ovens there, which plant, it is expected, will be in operation about Earch 1st, 1915.

I hereby agree to sell the whole of the Toluol of 98% purity produced from this plant, for a period of one year after the plant is in operation at fifty-five [65] conts per United States Cellon, F. O. B. Her York City; same to be shipped in steol drums, and drums to be charged for at actual cost to me. Shipments to be raide weekly or monthly at the option of the buyer. Payments are to be made on presentation of shipping bills from works.

His Britannic Enjesty's Government by J. P. Morgan & Co. Agents, agrees to accopt and pay for the whole of the Coluci shipped from such pilant to them for a period of one year after plant is in operation, such shiphents to be 552 gallons, more or lest, ner agreement as addition.com be made to the plant; which said them is expensional than the control of the contro

Yours very truly,

(signed) Thos. A. Edison.

The Above is the substance of the arrangement made between Mr. Edison and Mr. Herbert Lewis.

(signed) Wm. H. Headowcroft,

Assistant to Mr. Edison.

[ATTACHMENT/ENCLOSURE]

J. P. Morgan & Company
EXPORT DEPARTMENT

23 Woll Street, New York, Feb. 6th, 1915.

Thomas A. Edison, Esq., Orange, H. J.

Dear Sir:

Receipt of your letter of February 3rd, 1911, covering cale of Toluol to the BritishGovernment, is acknowledged.

The proposal you make therein is hereby accepted, with the following conditions, to wit:-

It is understood that the inspection and acceptance of the product shall be by representatives of the BritishGovernment, and that the amount of Toluol, - the subject of this contract, thall not exceed eight hundred (600) tons in all.

It is also understood that the notation in your letter with respect to Mr. Lewis is a matter with which we have no concern, but that the price you mention is not to the undersigned.

Zindly confirm the foregoing.

Yours very truly,

(signed) HIS BEITANNIC MAJESTY'S COVERNMENT.

by J. P. Morgan & Co. AGENTS.

CABLE ADDRESS JOKICHI TAKAMIN TAKAMINE, NEW YORK JOKICHI TAKAMINE TELEPHONE akamine Laboratory (Inc.) Equitable Building New York Thomas A. Edison Laboratory. At Vention of Dear Sirs : -To wish to opened our thenke or conconclusion that you can enter contract forgone ton acctunelled per month for six months at \$2.50 per sound f.o.b. Silvey and on Contract Lake, H. J. We regret to inform you that this price is way beyond consideration. We have been able to get reguirements of Acetanelia at \$1.05 for a certain a carte-such month, but as we need a larger quantity we were compelled to look round for another source of supply. If you could consider furn shing up Acctunolid one or two tons per month at that price we would be more than rlad to enter an order for a six conthe' contract. Se sincerely hope you will consider this matter

favorably, and awaiting your roply, we reamin,

Menteruca

ical Very truly yours.

TAHAHIH LABORATORY, INC.

neces of the chemical

ET/D The friet, went

forest in Heir Perk

think Ywell stand on the Contract Herah 26th. 1916.

white Tollow have no house like to have me refresh your memory as to what Tollow we have no head, and what our obligations of the resent take that pour and the resent take we have a head about 1,000 gello of mure Tollow 1,000 gello 1,000 gallons of pure Toluol. Of this

There belongs to British Government Sold Mitsui, to be delivered ..pri Surplus on hand -

We also have on hand enough crude and washed Toluol to make six or seven thousand gallons more.

Our contract with the DuPont people ealls for deliveries beginning in May. We can still figure on our production of Toluol for a few more days in March and for the entire month of ..pril, so let us see how we would stand May let, and still be very conservative in our estimate.

> Surplus on hand, as above, april production, \$140 gallons per day

3.438 gallons

Aveilable for sale May 1st

You will notice that in the above calculation I have taken no account whatever of the crude and washed Toluol on hand, from which we will undoubtedly get six or seven thousand gallons more, but I figured to upply that on Dupont's May delivery, if necessary.

The net result of the above is that after providing liberally for our lay delivery to bupont, and after deducting the 6,362 gailons we have on hand for Morgan and the 5,180 gallons we have on hand for Hitsui, you would still have for sale, May lat, 7,638 gallons.

How I do not know how liberal you want to be in dealing with J. P. idergane Company. There of the provided in the state of the control of the contro their contract called for, namely, our Toluel for one year, but if you are so minded, you could let them have an additional 6,000 gallons at the same price, 55¢ on a written understanding that this 1,000 gallons does one and a view on a view on an array and the thirt this to the guide of a phy on the contract, but is voluntarily offered by you in view of the mutual disappointment as to the quantity of foliol which you had expected to furnish and which they had expected to receive.

as I stated to you in my letter of yesterday, I did not come out openly and say to J. F. Horgan & Company that you had contracted your Toluci. I foresaw that probably another interview would be necessary before we could close the matter up, and, therefore, thought it best to lay the matter before you first. I do not think it would be well to make any offer whatever in writing.

I shall await your instructions.

1 Hillewowaof &

Mr. Edison:

Referring to the attached letter let me say that we rent eight acid care from the Gorman American Car Company. It would seem from this that the lease of six of these cars cx-pires in May.

running between Silver lake and thereference. C. there are two of these erre filled with Chamber Acid on the way up to Silver Lake, and Charleston, C. C. there are two cat these erre filled with Chamber Acid on the way up to Silver Lake, and four are on the way down o Charleston. I think there is only one curloed more of Chamber Acid due ur under the contract with the South Carolian people. You will undoubtedly member that this contract for Chamber Acid and were not may be made the four current for the contract of the co

Beides these we have two other forms numericen Acid care, whose lesses expire later on in the year, i.e. also have two said ears that belong to you. These are tho two that Er. Hoffman bought for you and that you paid for with Phenol. . as we have plenty of tank copacity for said not, I do not see thy we should take another lesse of these forms marries core those lesses on-pires in lay, especially/you consider that they have jumped the rental from 30.0 to 350, per months.

Piense John John Intractions.

With Mer Wall Doub think we will

wed the Extra ward Cars #2

Carbone was be using Carbone

of Kamenmoledy presents.

[ATTACHMENT/ENCLOSURE]

THE GERMAN AMERICAN CAR COMPANY

GERMAN AMERICAN CAR LINES GENERAL OFFICES HARRIS TRUST BLDG.

MAX EPSTEIN
PRESIDENT
DAVID COPLAND
GENERAL HANAGEP
CHAS. H. COYLE
ASSISO PRESIDENT

CHICAGO

EASTERN OFFICE

(7769)

Thomas A. Edison Inc., New York, March 24th, 1916. Orange, N. J. Mr. Wm. H. Meadowcroft, Asst.

Gentlemen:-

Confirming our this morning's conversation wish to remind you that your present lease on the six (6) Acid cars, numbers GATX 8060 to 8065, expires in Kay, and we should like to know whether you wish to remew it.

even greater now fiban it was some months ago, and there is practically no supply at all to meet it. Korcover, the price of new cars has increased over 36% since we built these cars for you.

On the very few cars we have had available recently we have been getting $^{7}40$ a month for three-year leases, \$50 for two years, and 85 for one year.

If you wish to retain these six cars in your service and will make a new lease for a period of three years we will be willing to continue the period of three years we will be willing to continue that it is a considerable reduction from the rates we are asking at the present time. If you cannot see your way clear to making a lease for three years we will let you have the cars for two years at the rate of 46 a month, or for one year at the rate of 50, a month.

We hope you will be able to let us know promptly if you wish to retain these cars as we are obliged to turn down inquiries every day on account of not having cars available with which to meet them.

Very truly yours THE GEREAN AMERICAN CAR COMPANY
BY CALLELL TO ELECTRONICAL COMPANY

BE:EL

W. Edison:

Here is a duplicate of the long missing letter. I remember the original coming in, but have no resolution of it afterwards, except a dim idea that you sent it to D. Parkon.

I have had 2 copies made of Mis and put Keen in our feles.

measowa.

You sught come him group I do not ment to go into Ambus Kolorons but I am now secretary

Sar next page

· Paraphanglandeam + would be willing it Day for a cheaper pleaceur WE now make it by Mitraling acetanifila then Reducing by Front precious on account of Jacos

Zurich, Mars 7, 1916 of colors derived from coal tar I hereby take the liborty of acking you whether processess for the manufacture of colors taken from my experience would be of interest to you. As to my person I beg to state the following: I ag a Swiss, Chemical Engineer of the Federal Polytochnical School of Zurich and Ph. D. of the University of Zurich. After having occupied the position of first chemist with the Usines du Rhono at La Plaine, noar Geneva, which firm manufactured Aniline & Resorcine colors I became connected for forteen years with the fronch works of the Badischo Aniline & Soda Fabrik in the capacity of technical Manager. On the enclosed list you will find all color and intermediate products rogarding which I have practical experience and which experience I have written down in the form_of=directions. These directions are drawn-up in guoh a way as to leave no doubt rogarding its final outcome and any chemist, who has had a toohnical instruction and training is, on the strength of these precise communications as to raw materials, course of

- 2 -

manufacture, output to be obtained, mixture, cost price, etc...
in a position to erect and conduct the manufacture of such
colors on a profitable bacis.

An the sumurature of colors in the United States of America has become a vital question and the next Congress will undoubtedly protect the chemical industry in the United States through high teriffs I think that among this list you will lind agreet many products which should be of interest to you.

I am always at your disposal to furnish you with further details and awaiting your further news,

I remain, door Sirs Yours truly

References:

American Conculate General Zurich Swiss Credit Anstalt Zurich

address:

Dr. William Emocht

Eue du Righi 47

Zurich.

Switzerland.

Conlours d'aniline.

Bleu mothyleno B.	Fuchsine 3	Blow marin
" "BGL	Bleu toluidine	Blou de .:11
Violet eristallisé	Bleu victoria B	Blou do Luit
Violet A 1'Sthyle	n n 3	Ahodamine B oxtra
Violet sloalin	" " 4	" G "
Vert malachite	ronoenu 28	" 3 "
Vort brillant	" 3R	" 6 C "
Vert maide	Blem acctine B	Jaune de . uinoléine
Auromino 0	n n 3	" " s
Pluoresceine	Sosine	Violet om Methylo B extra
Arythrosine	Rose Bengale	Bleu indoine R
Jaune naphtol 3	Orange II	" " B
Jaune solide	" IV	Azoflavine S
Rouge colide A	Fhloxine	" R S
" "В	Erythrine 3 R	" & R
" " D	Tartrazine	Feranitraniline
e e g	lyrumine Orange	Jaune metanil
hoir brillent	Noir direct au soufre	(Jmmedialnoir)
Dinitroso Resorgine / Ver	t de sussie l	

hatidres premières.

Acide Bayer

Acide Schaffer

Acido 3

Scide G

Acide gallique

Acide naphtionique

acide sulfanilique

koide phonylhydruzinesulfonique

midoczobenzol

amidonsobenzolaulfocel

Benzaldehyde

benzylethylaniline

Chlorethyl

Chlormethyl

Dianisidine

Dimethylaniline

Diethylaniline

Dioxytertrate de soude

Huile pour rouge ture

Ditrophenol, Ortho et Para

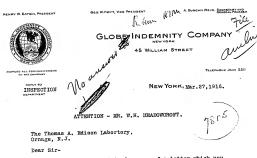
Orthonitronnisol

Orthognisidine

Parasmidobenzalaldehyde

Resorcine

uinaldine



We are in receipt of a copy of a letter which you sent to our Cleveland Office dated March 10th in reference to the process of nitrating in the manufacture of Anline Oll &c., and we wish to the trace that we have had several requests for inceeding the continuous of the continuous of the continuous of the continuous and an irrators, but we had to refuse on account of the continuous and the continuous to get further information in reference to their manufacture, construction and operation, and if as you say, you are operating nitrators at your plant, our Superintendent, Bagineer and the writer would esteem it a favor if you would allow us to visit your works and examine the operation of your nitrators.

Thanking you in advance for any courtesy you may xtend, we are,

We extend, we are,

Very truly yours,

Very truly y

Est to Broading John T. Mettrick 165 Broading 1860 New York

Controlie

Telephone Cortland 884

Harch 27, 1916.

Heron 27, 1916.

How take.

How the strong the strong that th Edison Chemical Works,

Gentlemen:

I take the liberty of priting producing plant. of the directors of a large phenol

Irresponsible war brokers have been acting without authority, I am informed, in making large Cofferings of phonol and picric acid at prices much below the market, which has disturbed conditions here, resulting in large money lesses to the various plants producing these products.

It has been proposed to hold a conference in New York for the discussion of business conditions in this industry and so far as we are legally entitled to act more or less in co-operation to remedy the bad state of affairs. From an investigation made by me covering a period of several months, I feel that a substantial betterment can be made in the trade.

Would it be possible to have some one representing your plant attend a preliminary conference to be held in this city within the next week?

Thanking you in advance for a reply by wire or letter. I remain,

Yours very truly,

John J. Kettrick

E.R. SQUIBB & SONS, NEW YORK

Courtolie

EXECUTIVE OFFICE

March 27th, 1916.

Hr. Wm. H. Meadeweroft, Assistant to Hr. Thomas A. Edison, Orango, H.J.

Dear Er. Meadoweroft :-

I have your very interesting letter of the 24th instant, and congratulate In. Adison upon his nuccess in devising the improved process for the production of a pure Phonol. The samples Hos. 359, 560, 361 and 362 will at once upon receipt be examined, and I will send you the report our control laboratory will make concerning the same. Beauwhile, I hepe you will lot us have of this pure cold all that you can give us.

vory truz yours,
THE DOAN THE FIRST MINE

TW: Lon

March 28th . 1916 .

Carril

Mr. Amery:

Just before ir. Edition left I discussed with him the question of Sensol for all our plants, and we were both aware that it might be possible that we should occessionally be obliged to purchase come spot Sensol in order to keep the plants running. This is on account of the reilway congestion and embargoes. Hr. Edison told me I should have to act according to my best judgment on that point, and only to purchase if it accame absolutely necessary to keep the plants running.

This emergency proper today, and fortunately I was able to find through the American 311 & Sumply Company & moderate quantity of Sensel which they have been trucking over for us today. I asked than to get me 16 drums if possible, but will not know until tomorrom just bee much they have been able to get.

This would not put us out of dunger, so I purchased a carload (3,000 galloas) of pure Bonzol, Barrett Specifications, from aerman & Horman, Line., 166 Broadway, New York City, at 84¢ per gallon. . 0. B. Philadelphia. They are making rush shipmont of this today. This is in drums, and the drums will be charged extra, but credited on return. Will you kindly issue a requisition for this, in accordance with Fr. Edizon's decires.

W. H. MEADOWCROPT.

March 88th. 1916.

Glose Indomnity Company, 45 William Street, How York City.

Attention of Mr. Turnbull

Gentlemen:

Your favor of the 27th instant in reference to the process of nitrating in the manufacture of aniline 011, etc., has been received.

Your request for permission for your Superintendent, Ampineer and yourself to visit our plant is noted. In: Edison has trictly prohibited the admission of visitors to our Silver Lake Works, and in his absence I shall be unable to comply with your request. However, I will cond down your letter to him in Florida and upon receipt of his reply will advice you further.

Yours very truly,

assistant to Mr. Edison.

Chamber of the Archaeolege Hapthalene.

Sharks you for your letter of 21st instant

The have available for disposal at present
approximately 115 Met Tons in Bags, and our make would

be about one half a Het Ton weight daily.

We will be interested in knowing the detail of your proposal, meanwhile,

We take me Should make to me arrangement.

Stands good my a subtemment serving for a south from the stands of or of the fire stands of the formation of the formation of the formation of the stands o

ours faithfully,

dest st. General Sales Agent.

8080

April 12th. 1916.

bominioh Iron & Steel Company, ydney, Capo Breton, Cumada.

ttention of ar. Luckeen.

Gentlemen:

Referring to your favor of the Beth ultime in regard to Benitth-line, I t we say that I sent your letter down to Br. Edison, who is at present in Florida.

I have received a memorandum from him this morning while me to communicate with you and say that be his return to the laboratory he will make you a proposition on this product. Yours very truly,

assistant to Er. Edison.

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2, cents a lo for the refined Marthacen
The perd carry - I year a retract
This to enclared their Mars one trend
That male for I year - 25
With an Option to infor one year, 1, additional,
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time - Now to furnish us of
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CLARENCE DILLON 28 NASSAU STREET NEW YORK Bouzel

resturn the contractor argued but note correct or date on male and so of don't known that the state of the st

CHM/le-

m. H. Meadowerott, Esq. Orange, M. J.

The Edison.

OD-38

M. Edison.

OD-38

M. Miller Continued to the Man of the Man o

THE ROCKEFELLER INSTITUTE FOR MEDICAL RESEARCH, 66TH STREET AND AVENUE A. NEW YORK.

March 28, 1916.

CABLE ADDRESS ROKSTITUTE

7832

Thomas Edison, Inc. Orange New Jerssy.

Gentlemen:

We are greatly in need of the following chemicals: ortho, mata, and para - nitro-amiline, and we would appreciate it greatly if it would be possible for you to help us out in the matter of supplying these special chemicals. We would like to secure about one or two kilos of each or any of them. You can readily understand how difficult it is for us to obtain such chemicals in the regular way at the present time, and that these chemicals are to be used for purposes of scientific investigations only at the Institute here.

Yours truly

THE ROCKEFELLER INSTITUTE

FOR MEDICAL RESEARCH.

Our, B. Spire

PS. places a die me concerning the passility of suppling Para Phonyling dismined

CB.Sp.-

MANUFACTURING CHEMISTS' ASSOCIATION

OF THE UNITED STATES.

OFFICE OF THE SECRETARY.

IANGE B'LD'G, BOSTON

Mar. 28, 1916.

Thomas A. Edison, Inc.,

Orange, N. J.

Dear Sirs:-

Your name has been suggested for membership in the Manufacturing Chemists Association of the United States. This suggestion has been made owing to the very active interest which the Association is now taking in the so called dye stuff situation.

There are approximately 40 of the leading chemical manufacturers of the country in the membership now. The annual dues are \$75 and the initiation fee is \$50.

May I ask if you would care to join?

Should you care for further particulars, you can inquire of the General Chemical Company, the Barrett Manufacturing Company, Schoellkopf, Hartford & Hamma, the National Aniline Company or the Benzol Products Co.

Should you care to know more in detail as to the very active work which the Association is now pursuing in order to secure some form of relief for the so called dye stuff situation, I will be glad to communicate with you further.

Very truly yours, A. H. Weed Secretary

March 29th, 1916.

The hockefeller Institute for Medical hocearch, 66th treet and kvonue a. how York City.

Attention of Mr. Chas. B. Lpics,

Gentlemen:

Your fever of the 2dth instent has been received. The regret very much that the shall be unable to supply you with either orthe, mete or taranitroaniline. The mestion of manufacturing those chemicals came up many menths ago, and in. Edison decided that he would be unable to go into the manufacture of them.

We are making Persphenylenediumine, and could supply you with this chemical in moderate quantities at 74.60 per pound. We are conding a sample by this mail.

he to the other chemicals about which you inquire, you might communicate with the American will & Eursiy Commun, the Lafayotte Stre t, Jowark, H. J. They may be able to curefly you, or if not, they could get them for you.

Yours very truly, Edison Laboratory.

WILLIAM H. SCHEEL.

MERCHANT.

159 MAIDEN LANE AND 37 FLETCHER STREET.

New York, N. Wiearch 29th, 1916.

Ask of he can found the agreement of Mr. Thomas A. Edisof, Inc., Orange, WE want tow dim

Dear Sir:-

With reference to bashesium Chloride would

say that our producers now advise that the grading of which we submitted a sample runs/35% Hagnesium Chloride. It is the medium grading and suitable for use by manufacturers of flooring materisl. However the producers are enabled to match any grading or quality or specifications and will be glad to have state just what the requirements and they will make up a sample for us. The various gradings run from the chaspest quality for technical uses up to the Chemically Pure. We trust that your Mr. Meadoworoft will pass the particulars to -r. Edison for accederation and a statement be given to us as to your setual requirements. We are prepared to handle any proposition you may present to us.

GHT.-G.TK

Mobblely

ar. bowling:

This memorandum is simply for you to keep as a record of the transaction which it covers.

on lest Tenday night your jinch was running ontirely out of Tenzel. ... had seven cert coming towards us on the religion, but finding that there was no prospect of any delivery for two or three days. I authorized Er. Zenmerhoff to leen you 25.00 gallons out of tank our which no had received two days before.

As there was no probability of our petting in any of our tenk care before today (Churchay), I realized that it is drow my further on the Memorroff's supply that such supply tould be exhausted in less than two days, and both plants could have to shut down. Increfore, on Tuesday morning, I ammaged to secure from the American will & Supply Company, II drums of Bensel for immediate delivery. These were sent over my truck at once by the American will & Supply Company, giving your plant sufficient to run until yester-days morning.

although strenuous endeavors were made by in. Regers to occure delivery of a tank car of Bensol, it was found impossible to get a car yesterday.

I seam empouled to in different of the workers of it is surply company, seking him if he could heap us out by immediate following of it done drums. He said he would before it drums of Bensel from one of his customers, and truck it right over to us, and we could re-fill the drums out of the first cur we received and send them seek. This bridged over until today. Hr. Regers atteres me that a cur of Bensel from tydney is coming up from Jorsey City and will be at Silver Lake before is o'clock noon.

WOODWARD IRON COMPANY

WOODWARD, ALA. March 31, 1916.

Mr. Thomas A. Edison.

J H WOODWARD

Orange, H. J.

Dear Sir:-

We are in receipt of Mr. Meadowcroft's letter of the 27th and note that you have sold another carload of flaked naphthaline for April delivery at 112/2 per pound. We also note that you can sell a second our for May shipment at 112 per pound.

It is our belief that by spraying the sides of the subliming building we can maintain our production as this ought to keep the metal lining of the building sufficiently cool. We are making the necessary arrangements to experiment along these lines.

We note that the prices quoted above are f. c. b. Newark, N. J., subject to 1% discount for cash.

Your e truly,

rhb-b

Edison General File Series 1916. Chemicals (E-16-16) April

april lat. 1916.

Br. William Knocht, Rue du Righi 47, Zurich, Switzerland.

Dear Sir:

I have just received a memorandum from Mr. Edison, to whom I sent your letter of the seventh ultime.

He wishes no to say to you that he does not intend to go into the manufacture of aniline colors, but he is now making rerephenylenedismine, and would be willing to pay for a chespor process than he is nor using.

At the present time he makes Paraphonylonediamine by nitrating actionillid and then reducing by iron, but this is a very expensive process because of the high cent of Glacial actic acid here at the present time.

Yours very truly,

Assistant to Mr. Edison.

april 3rd. 1916.

Keith Car Company, Feoples Gas Building, Chicago, Ill.

Gentlomen:

I beg to confirm the following telegram, which was sont to you this morning:

"Mr. Edison wishes to ronew leases on all tank cere mentioned in your rocent letters for one year. Plones send leases for signature. Can you lease one additional cur, and how quick?"

I have receaved word from iir. Edition steting that he wishes to renew the loases for one year, of all the tank cars mentioned in your recent letters. Hence the above telegram.

I trust you will be able to rent us one more our to put in our Benzel service.

Yours very truly,

Assistant to iir. Edison.

Ok give Walley the ports stained ...

Mr. Edison:

You undoubtedly remember the fact that our friend Mullaly made a few milline contracte for us last year, and you allowed him a commission of th.

Imong these contracts were those made with American Printing Company and Hollander which ran to the end of last year. We renewed with these two concerns ourselves for the year 1916, the American Printing Company taking 8,000 pounds of Aniline Oil per month to 50%, and Hollander 6,000 pounds of Aniline Salt per month at 88%. I told Mullely that as we had taken this renewed business we could not allow him commission. He feele, however, that as these customers came to us originally through him, we ought to conform to the useage of the trade and allow him a 1% brokerage, and he asked me to lay this matter before you and get your decision.

When Mr. Hoffman was in this morning I thought I would ask him as to what would be customary in a case like thie. I stated the facts to him, without using any names whatever, and asked him what he would be in such a case. He said that while there was no legal liability, there was good moral ground for allowing it, and if it heppenshith the concern he would allow a 1% brokerage without hesitation. He thought the man, whoever he was, was very moderate in asking only 1%.

Mullely has been very useful to us on several occasions, and is always willing to put himself out to get information for us.

What do you wich to do in the matter?

MEADOWCROFT.

www

Mr. H. F. Miller + god Olease note + god Yourself Joy Headownorth



SILICA PRODUCTS, COMPANY

SILICA SAND - FIRE CLAY
FOUNDRY SPECIALTIES
436 WEST ONTARIO STREET
CHICAGO

April 3, 1916.

Carolic Cataria

Mr. Thomas A. Edison,

Orange, New Jersey.

Dear Sir:

Answering your wire regarding the carload of Magnesite. (accised.

Our Kr. Hyatt has been in Californic for the past two weeks and will return to Chicago on Thursday of this week. Immediately on his return we will advise you definitely as to the shipment of your car.

We regret very much that this has been so delayed, but we were advised by wire a few days ago by Mr. Hyst that the rains were still very severe and this has held up the creation of the Launt We are of the opinion from what information we have, that it will be two or three weeks at least before your shipment can move.

We certainly regret this very much, but have done everything in our power to try to hurry things

along.		
1 -1 - 1	Very truly yours	, , ,
The Grecian Oxide cof	SILICA PRODUCTS COMPA	ИX
Magnessa we buy from	· llan	EBlood,
and A wood well u	a aut	
31	no-base were being	r bery 20 long)
Samuel Ofreton	and from School	how-low a
brown 114/16 June well	11 lace talles of	Jeby .26, that -
	the guerante i	carload of
. Sunama	and alko manuelea Col	Coride Them
Calcined magnesite	ey mange	
I have at denoine days bef		Her came.
wis · Wille	Meneral	erofs
10 april 6/16		,

agril 4th. 1916. buebole

Mr. Kammerhoff:

I have received your memorandum of the 29th ultime in thich you extto that you are required to give a deily report cheving the orders for pure Phenol that you have on hand, and now orders received.

So for us the month of March is concorned, you already have the figures for Encenants and the 75,000 pound order for Mitaul 1. Commency. In o Islandante, that was finished in March, and us to Liteui 1 company, I understand you expect to finish this order during the procent week. All 1 you now please enter the following accordance to be filled by your plant:

- / 1. Picstin.y arconel, 6,417 pounds every 30 days until pril, 1917. Price 164 per pound.
 - 2. United . tates Navy, 1t.88. pounds per month until .pril, 1917. rrice t60 per pound.
- 3. L. H. Squibb & Sone, the pounds per working day (instead of 250 pounds) until the end of t a pour 1916. Frice 77 1/24 per pound.
- Inomas a. Edison, Inc., ax Plant, S.143 pounds overy dey. (including fundage) until further orders. Price as acual.
 - 4. Mitcal is commony (a new order) 124,400 pounds, to be uniqued in count monthly deliperant, spall, isby, dame and sally 1916. For two information of your Milliam Department for me act that this is, to be willed to Mitcal a Company at 764 per pound, and accompaning oach offli is to so a credit nomerosalum in favor of siteal a Company for 64 per pound. Also makes the net price received by us from Mitcal & Company 704 per pount, but chipments are to so billed in accordance with the above instructions.
- Amorican Oil & Eupply tompany, 1,286 pounds per day (including inadays), april let to becomber flat, 1916. From 72.64 per pound.
- 7. hobort T. Lorior, 1,000 pounds por week until Decomber Flot, 1916. Price 80¢ per pound.
- / 8. J. .. Letkine Medical Company, linena, Mins., 500 pounds for month from april to becomber, 1916.
 Price 8td for pound.
 - J. L. Luthing Redical Company, New York City, 100 pounds per month up to the end of the year 1916. Price 814 per pound.
- 10. Etrocon-houter a Hancock, Inc., thicage, 250 pounds per month also to the end of the year. Frice 814 per pound.

For our mutual information : have figured out the above orders on a daily

ve heve.

basis, so that we may soo how accurly the total approximates your duily output. In figuring this, I have calculated the daily output at the rate of 30 days to the month.

the m					
1.	Picatinnyrsenal	181	pounds	per	day
2.	United : tates Havy	£30	"	"	"
3.	E. E. Equibb & Cons	216	"	"	"
	Thomas Edicon. Inc. bex Plant		er er	и	"
	Mittui & Comeny (now order)		"	"	**
	american Oil a Eupply Company		"	"	"
	hobort 1. hosior		11	"	"
	J. h. matking Modical to. (both orders)		11	n	"
	- to a thomason Inc		**	11	"
9.	Totel		"	11	"
	1000.1		400.700	inc	Sunds

If your everupe daily production is greater than the above, to can coll at spot prices unless it becomes necessary to apply it on other contracts thich

h. I. MEADOWCHOFT.

Mr. W. F. Dowling, Division Managor, Aniline & Fhonol Plants of T. A. E. Personal, Silver Lake, N. J.:

Answering your letter of March 22nd with reference to the advisability of cancelling certain Shop Orders, we have gone into this matter with the results shown below.

You suggest the cancellation of the following Shop Orders:

#3870 covering labor and material of constructing the !niline Plant;

\$3871 covering labor and material of constructing the Phenol Plant;

\$3970 covering labor and material covering repairs to machinery and equipment Aniline Plant;

#3986 covering labor and material covoring repairs to machinery and equipment Phenol Plant;

\$4042 covering labor and material operating manufacturing expense items Amiline Plant;

#4043 covering labor and material operating manufacturing expense items Phenol Plant;

We have arranged to close out Shop

Order #3870.

Shop Order #3871 will have to remain open for the present, as there is still work being done on the Fhenel Flant.

We have arranged to close out Shop Order #3970, #3986, #4042 and #4043.

In accordance with our conversation, you will in future send us separate orders for any work to be done which heretefore has been covered by Shop Orders Hos. 3970, 3986, 4042 and 4043, such orders automatically to be closed when the work on them has been completed.

orders to take the place of some of these cancelled as follows, which orders you have put yot sent us, and which we would be glad to have you at one, so that our charges may be properly distributed:

First Order: Experimental Work Aniline Plant;

Socond " " " Phenol "
Third " Selling and Administration Expense at

Laboratory Aniline Plant;
Fourth "Selling and Administration Expense at
Laboratory Phenol Plant.

We are transferring to your Pay-Rell Chauffeur Pentslaff, who has previously been on our Eay-Rell here, and whose time has been charged equally to the Aniline and Phonol. Buttelems.

of my investigation 1 have found that the laboratory and the other Works in the Immediate vicinity and the exployees attached thereto are fully conversant with the numbers of our Shop Ordors, and charge a portion of their time to them, although they render us no service." While overy effort is exceeded here at the Laboratory is no closely a service of the particular of the control of the contr

Secretarial Service Dept. of Thomas A, Edison, Personal

R. J. Hellow, Assistant Secretary.

C.C. to Mossrs. Mambort & H. F. Miller.

RWK/LIH

CONSULTAGE CHANGE
CONSULTAGE CHANGE
CONSULTAGE CHANGE
THOUSAGE CHANGE
TO THE CONSULTAGE CHANGE
DEAT Sire,

Dear Sire,

We take the liberty of advising you what we are interested to consultage consul

Still liver for game.

Shill liver for game.

Short provided to the game.

Short provided to the game.

Short provided to the game.

Parameter phenology of the provided the phenology of the game.

JWJ.FLL,

All communications should be addressed to "Convanding Officer, Picatinny Arsenal, Dover, N. J."

POST OFFICE. TELEGRAPH. EXPRESS,

FREIGHT ADDRESS.

CATIONY ARSENAL, N. J.

WHARTON & NORTHERN

introduction

ICATINNY ARSENAL.

Er. Themas A. Edisen,

Orange, N. J.,

Dear Sir:-

Replying further to your favor of Euroh 16, 1916, as to supply of Phenel in greater quantity than we are not taking from you, I am informed by the Othef of Ordanese, U.S.A., that me funds are new available for ordering from us an increased supply of the explosive in the manufacture of which we use Phenel.

There is strong probability that when the present Congress passes the Fertifications Bill pending, of shell receive orders for greater preduction and be in the market for fare thench. Then we shall, under the law, be required to invite bide and will hope to receive yours.

Thanking you for attention to our inquiry and regretting that I cannot now take advantage of your offering, I remain

Respectfully yours.

t.Cel.,Ord.Bopt.,U.S.A., Commanding.

Che hole



THE J. R. WATKINS MEDICAL CO. WINONA, MINNESOTA, U.S.A. APril 6, 1916.

Thos. A. Edison Laboratory, Orange, N. J.

Gentlemen:

What would be your price on 400 lbs. of U. S. P. Carbollo Acid Crystale to be taken out such month for a period of six months, and also your price on 200 lbs. a month for a period of one year? 8131

one year? It bedare

The K.R. Walkins Medical Co.

OKG-J8. Mr. Edison:

We already home a small contract with them (came as above) at \$5° cents
With them (came as above) at \$6° cents
Music we could maning the above also, but no U.S.I.-Crify sele on comple. Bottom has a topper out of theme wenter.

Meaconserf,

SEND the following Night Letter, subject to the terms no back hereod, which are hereby agreed to Thomas A. Edison, Fort Myers, Fla.

Orange, N.J. April 8th. 1916.

Wrote Thursday about Magnesite. Here is later information. Scheel has on dook fifty tone Grecian powdered calcined. Contained to 50 per cont Oxide Magnesians to the Contained of the Section of the Contained to the Contained to

MEADOWCROFT.

Clastown Va. april - 8-Ur llason .. Shis is a little winde dope on taptitholius, a question, which is going to be put up to you before many days U luder the give of the Union Chemical Co- The following (that I know of our interested) Plick, Ogden, and clark are operating a. Ochumical plant and stay are starting in to wake flored topthidue, This plant is not at the Cambra steel Cos plant but in foluston a Mr. The Phurshing is gow. My. They are taxing the Cabelia hof thatme as fast as they make it and want make - Ship has tuned their attention to ours - and me looking up our contract, Mr. Whiteter, (Mr. Stiers Sec.) claus that as nothing was said in the Contract between Ur, Edison and Combia in reference to taptholom, that the papelalue belongs to Cambia -The wavers above wantioned our very silent pardure and it is not

generally known they are Vinterested so use cair, when neccessary to use Their names, as it were get mr in wrong - She alone facto I. have gathered up in the lost few days so you can lay your flows Jaccordlugly Jellin Bacan I thing they were with the Edward. Un Edison Phase note-



DEPARTMENT OF THE INTERIOR UNITED STATES GEOLOGICAL SURVEY

groodward. File was

WASHINGTON

DPFIOR OF THE DINEOTOR

fr. Thomas A. Edison, East Orange, New Jersey. April 8, 1916.

for 1915

Dear Mr. Edison:

The Geological Survey is compiling statistics of the by-product coke industry, and has been informed by the Cambria Steel Company that for a statement of the production of bensel, tolunch, colvent naphtha, and naphthalone, and the value of the products, at the Edison Plant at Johnstonn, Pa., application should be made to you. A blank for the desired data is inclosed herewith, and an envelops for its return which requires no stamp. Information of this character is held strictly confidential by the Survey, only totals for the United States, and their values, being published.

hilit J. Vuith

INCLOSURES (2)

Milan

buchelie.

night Letter

Thomas a Edison Fort Myers, Horida

Vory glad to say am sending more encouraging news about new disc seconds. Moore has been wearing a glad smile all day. He was a dark blue all through last week. Have secured townly five town magnesik.

neadowerft

Amb College

April loth. 1916. Socutolic

Mr. Edison:

I do not want to trouble you with one thing more than I can possibly help, but think that you would perhaps be interested in seeing this letter.

I received your telegram to buy 25 tons of Calcined Grecian Magnesite, powdered, and had Scheel on the telephone long before nine o'clock this morning. The 25 tons are bought and will be shipped out to Silver Lake within the next day or two. I presume you have instructed Mason about how to use it.

We cannot along the two the college of

april 10th. 1916.

Mr. Brady:

Till you please issue an order on Thomas ... Edison No. E Phonel Plant, Silver Lake, for the following:

10 gallons Benzol 20 rounds Phonol.

Those are to be delivered to ir. Indress in the Chomical Loom, here at the laboratory, and those materials are to be used in the manufacture of Paraamido Phenol. Ar. Edison instructed Er. andrews to manufacture this material in a small way during his absence, and these surplies tro to be charged to 4135. W. H. MEADOWORDFT.

cc. to Mr. Kollow.

...ril 11th. 1916.

Er. D.wling:

I understand from Mr. Burton of the Carbolic Lividion that the Carbolic cuiplied to Mittau & tempeny from i.r. Kommer-hoff's Plant is billed to your lividion, and in turn billed by you at the same price to Mittau & Company.

I had not been advised of this gractice until this morning. However, this is not said by way of criticism, nor have I amy fault to find with the expansionant.

The purpose of this note is to savice you that IT. Aummonther's plant is shout to commone mediate deliveries on new contract with mitteni & Commany for 184,400 pounds, to be can jud in monthly chipments during april, May, June and July, 1916. For the information of your Milling Department let me cay that this Correction to be billed to mistoni & tomnany at 76¢ per jound, and accompanying each bill is to so a credit memorandum in favor of Mitteni & Commany for 6¢ per jound. This makes the not price received by un from Mitteni & Commeny 70¢ per jound, but this most must positively be billed in accordance with the above instructions, which are part of the conditions of our contract with Mittenit's Commany.

In order that there shall be no migunder tradings upon the records, in Assumerhoff's plant will bill the shipment to you at 76 μ per pound, and occompanying each cill with a robute for 6 μ per pound. I have telephoned to hir further to this effect and have cont him a copy of this concumdum.

L. J. ME., DOLCKOFT.

mpril 11th. 1916.

Mr. W. S. Curpe..ter, Jr., Assistant Director, Development Department,
E. I. Du Po.t De ..emours & Co..
tilmington, Del.

Dear Ir. Carpenter:

Mr. Edison has an idea that probably your Company may have some Mixed Acids to contract out for the year 1917. If that is so, can you say at this time whether you will be open to supply say 330 tons a month for the year, and if so at what price. Our formula is as follows:

> 59.00% H2SO4 26.27; HNO3 Yours very truly,

and him

April 11th. 1916.

Hr. J. A. Durking, Vice Prosident, Butterworth-Judson Company, 61 hall Stroet, Hew York City,

Dear Mr. Durkin:

Mr. Edison would like to know if you are prepured to consider a renewal or our Mixed acid contract for the year 1917. If so, will you kindly lot me know what is the best you can do on the matter of price.

He has sent me up a memorandum from Florida asking me to collect all this information for him so that it will be ready upon his return.

Yours very truly.

april 11th. 1916.

Er. Philip E. Smith, Acting Director, Department of the Interior, United Lates Goological Euryey, Washington, . C.

Dear Fir:

Your favor of the eighth instant to Mr. Edison has been received this morning. No is away on a few weeks vacationin Florida, and we do not expect him to return until the first week of May.

We are sending him as little mail as possible, as he was very much in need of rest, having had no vacation for nearly two years. We will get the data together and have it ready for him by the time he returns, so that he may write you in person, if it will not then be too late.

I assume from your letter that the value of the products is to be the value at the works, not the selling price.

Yours very truly.

ARTHUR LILEON DENNEN 19 Cedar Stroot.

How York.

april 11, 1916.

Thomas ... Edison, Esc.. est Orungo. lew Jorcey.

Doar Sir:-

On behalf of Col. John 1. Lavis I beg to adviso you that in Davis is interested in the contract between yourself and horbort lowis of this city for the sale of a cortain quantity of toluci by you to the dritish Government through J. J. Morgan & Co. of this city. That ir. Davis has a contract with ir. havis wherein the latter agrees that ir. bavis is entitled to and shall receive a certain percentage of the commissions due Mr. Lowis under your contract with him.

han already boon pid by you between fourtreat Mr. Lowis handred dollars, no per to which Mr. Lowis handred dollars, no per to which Mr. Lowis has gaid to Col. Bayld under his contract with Col. Bayld. I also understand that an usefurmant of Mr. Jowis Commission to the Equitable Trust Company has been served upon . no accepted by you, which said assignment was made subsequent to the time of a. Lowis' contract with ar. Davis and in which Mr. Davis did not join.

By remeon of the move facts, I desire to notify you, on behalf of ar. Davis, not to pay any arther you, on condit of ar agents, not to pay any actuar commission to ottans are local to the return of a control of a control of your cald control with the althout the consent of 2 havie, his arcignous or nonlines; otherwise we shall be composed to not your commany portromally liable for for. havis interest in said control.

I would really appropriate your acknowledging receipt of this letter.

Vory truly yours,

(gignoó) A. W. Donnen.

ALD/MR.

1 - 0 (, , ,)

INCUIRIES FOR ANILING OIL

IN UIRIES FOR CARBOLIC ACID.

Eactean Zadak Co. Sochastor, S.Y. March il, 1916. - 5,000 to 10,000 pounds.
E...Jacobour Co. Inc. Sil Viercer St. Birl.C.-Lurch 24, 1916-100 lbc. months.
Moone Chemical Co. Sochastor, WY. - Barch 28, 1916-1600 lbc. to 1000 lbc.
Bourer 186 Co. Andever, Lass. - Lurch 18, 1916. - 1000 lbc. to 1000 lbc.
Bourer 186 Co. Andever, Lass. - Lurch 18, 1916. - 1000 lbc. - 1000 lbc.
Bourer 186 Co. Andever, Lass. - Lurch 18, 1916. - 1000 lbc. - 1000 lbc.
Bourer 186 Co. Andever, 1885. - Lurch 18, 1916. - 1000 lbc. - 1000 lbc.
Bourer 186 Co. Andever, 1885. - Lurch 18, 1916. 2, 000 bc. 3, 000 lbc.
Commort, 24 Eact 18th St. H.Y.C. Feb. 2, 1916. unknown.
Estanlog Jordan 2 Co. 116 Broad tt. M.Y.C. Jan. 21, 1916. 100 bc. 2, 000 lbc.
Hayor Brother Brugs 18 Brother St. Buffelo, H.Y. March 2nd, 1916-20 lb. lots.
Foorless Hig. Co. 36 Brother St. Buffelo, H.Y. March 2nd, 1916-20 lb. lots.
Synthotic Chemical Co. 180, 260 Singer Bldg. H.Y.C. Feb. 1, 1916. unknown.
Fulnot Chemical Co. 180, Cal. Feb. 14, 1916. Leaston R.
Tunner S Heffer, 1946 Park, Lass. Jan. 18, 186. 186. Ed.
Tunner S Heffer, 1946 Park, Lass. Jan. 18, 186. Ed.
Tunner S Heffer, 1946 Park, Lass. Jan. 18, 186. Ed.
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Tunner S Heffer, 1946 Park, Lass. Jan. 18, 186. Ed.
Tunner Lass. - 1940 Brother 18, 186. Ed.
Tunner Lass. - 1940 Brother 186. Ed.
Tunner B Heffer, 1946 Park, Lass. Jan. 18, 186. Ed.
Tunner Lass. - 1940 Brother 186. Ed.
Tunner Lass

INQUIRIES FOR PARAPHENYLENEDIAMINE

The attenux Diestuff & Chemical Co. Ltd. 41 Collegens (t. Toronto, Canada' Oct. 4, 1915-5,000 to 10,000 lbs. Boston Blocking Co. East Cumbridge, Hess. Sopt. 16, 1916- unknown. F. Bradt & Co. 240 Water 5t. H.Y.C. 100. 13, 1916. unknown. Bochmeier & Co. Underhill Bldg. H.Y. Sopt.27, 1910- unknown. Flow Bruncess Co. abury Bruk, H.J. Sopt.27, 1910- Ed. 100 lbs. Chomical Dyo Mfg. Co. 522 Carlotn Bldg. St. Louis, No. Barch 9,1916.3,000 lbs. Elknow-Lendelbon Co. 20 Lett St. H.Y.C. Sopt. 28, 1915- unknown.

Fronch Steem bys works, 49 circle, Indidangolis, Ind. Dec.6, 1011-unknown. Jemes a. Grey 12E Zest 46th St. Hy.C. Sopt. 25, 1916--unknown. imon Horrig; 3 one Co. 48 West 25th St. Hy.C. Hov.9, 1916-unknown. International Chemical & Munition Co. 70 Devendering St. Souton, 1988. Oct. 6, 1915-24 to 50 lb. lots. Coorge I. Asith Co. Compello, Mass. Nov. 16, 1915-24 to 50 lb. lots. Coorge E. Kaith Co. Compello, Mass. Nov. 16, 1915-1916. Unknown. Kaile Color & Chemical Co. Inc. 530 Canal Et. H.Y.C. Oct. 4, 1915-1916. Unknown. Irrige I. Levy, 467 lbt 5t. Brocklyn, H.Y. Espt. 22, 1914-1916. Unknown. Dr. Leo. Mannheimor- Tho Jorial Community of H.Y.C., 366 Geord Avenue, Arthur J. Neworthy, 367 Pulton 6t. Brocklyn, H.Y. March lt. 1916-1916. Unknown. Omnicolor Co. 202 E.29th St. H.Y.C. Doc. 16, 1915-1916-1916. Unknown. Cot. 1916-1916. Unknown. Cot. uct. 6, 1915 -- 21 to 50 lb. lote. R. E. Etreot 2 Co. Inc. 541 h. Weshington Ct. Chicago 100 to 200 pounds.
F. .. Chompmon 2 Co. Detroit, Mich. Pob. 14, 1916. unknown.
John C. Lateda 5 Co. Brooklyn, H.Y. 20pt. 14, 1916. unknown.
J. D. Lilliame, Inc. 267 t.jekoff 5t. Brooklyn, H.Y. Hov/ 16, 1915. unknown.
Miltemore Bros. Copp. 68 albany Et. Combridgo, Zass. Oct. 14, 1916-unknown.

M of holis

april 12th. 1916.

Secretary of the Treasury, Eashington, D. C.

S I R:-

ur. Edison withes e to ascortain what, if any, duty is payable on crude annithaline and sublimed maphthaline coming from Canada to this Country.

Assiting the favor of year reply. I remain,
Youre respectfully,

Tima Riederal, Grarhiga Mill



AGENCIES IN ALL PRINCIPAL CITIES FEDERAL PRODUCTS

FEDERAL BOILER GRAPHITE FEDERAL FLAKE GRAPHITE FEDERAL GRAPHITE PAINTS FEDERAL HOT SURFACE PAINT FEDERAL ELASTIC COMPOUND FEDERAL PULLEY FACING

AND FACTORY Please address reply to New York Office CLEVELAND, OHIO.

NEW YORK OFFICE, 120 Liberty St. Get Dawn des Lander in

Edison Chemical Works, Silver Lake, H.J.

Gentlemen:

We are informed that you manufacture eniline oils and salts and would appreciate very much having you advise us whether you would be interested in crushed iron, which we manufacture as a by-product in our Foundry Supply Hill, connected with our graphite business.

During the past months, we supplied to some very large firms in your line with this rew material for the purpose, so we understand, of substituting hydrochloric-acid by a new process.

If interested, would be pleased to submit sumple and prices in tons and carload lots.

Hoping to be favored with your prompt attention, we beg to remain,

Very truly yours,

THE FEDERAL CRAPTITE MILLS.

JDL.EJ

J. D. LOOG, Eastern Selling Agent.

Mr Edison

I would say for This is a new one on me. the pulverised unin meadower ADDRESS ALL CORRESPONDENCE TO THE HOME OFFICE

Whithaler with Mason the auch spril 13th. 1916. Journal

You will remember that the Mahn sent you down memorandum a gay or wo ago in regard to hapt the little at Johnstone.

This siteratory I had a bisphone cell from Mr. Silek's office at Johnstown. They said that we have about a contioned of cruded manufacture at the sense Plant, and as first was fifting said about application of the sense of the

I told them that at our moodward Flant the ame condition had prevailed, but that down there we were subliming it, and paid the moodward Iron Company a royalty of 1 1/44 per pound, which was on the basic of Solvent Maphtha at lod per gollon. They said that a local concern at Johnstown was subliming Maphthaline, and that they (Cambria Steel Company) sold their orude Maphthaline to this local concern. I said that the, only thing I could do was to write to you this afternoon and lay the facts before you. They said that they were very desirous of having the matter exranged as quickly as possible, and requested me to ask you to kindly write immediately and say what you were willing to do about it.

I jave just spoken to Mr. Mason about it, and he says it is not worth white to put up a sublimer at Johnstown. Anyway, we have only about a carload of the orude Maphthaline at Johnstown, and it would scarcely pay to ship it to Moodward to be sublimed. This carload is the accumulation of about a year.

m. March collection would be truly.

THE EQUITABLE TRUST COMPANY OF NEW YORK

HEMPY E. COOPER, VICEMEDICHT PRECERCK W. FULLE, VICEMEDICHT HEMAN DOWN, VICEMEDICHT LYNAN HINDACES, VICEMEDICAT HEGINALD W. PRESSPRICH, VICEMEDICAT REGINALD VERRESSPRICK, TREADURING
H, MERCER WALKER, TREADURING
PERMAND IS, NUNTER, SECRETARY
HERMAN J, GOOK, AMET, PAKABURER
CARLETON BUNCE, ASST. TREADURING
AND ADAT TO THE PRESIDENT

DOSPIN H. BADDOUN, AND T. BEDREAMY DUNCAN P. SOUHE, ASST SECRETARY BANKEL APMSTROND, ASST, SECRETARY ROLAND P. JACKSON, TAUSTOFFICER CHARLES H. MARFIELD, ASST, TREASUREN WORCESTER BOUCH, ASST. FRENETING ARTHUR A, MILLER, ASST. THEASURER G. LE BLANC, HER FOREIGN EXCH. GERT REPREST A CONNER, AUDITOR

April 13th, 1916.

Laboratory of Thomas A. Edison,

Orange, Rew Jersey.

Dear Sirs:-

Referring to our letter to you under date of July 20th, 1915, in the matter of commissions due Fr. Berbert Lewis, assigned to this Institution, will you kindly advise us at your early convenience when we may expect another payment under said essignment and the number of gallons of Tolucl still to be delivered by you under said contract.

> We would appreciate a prompt reply to this letter. Yours very truly,

> > Ablhian

Assistant Treasurer.

AAL/LP

April 14th. 1916. Probable

OH TUR

Mr. Edison:

I have not enswered the attached letter. If my opinion it is merely a fishing expedition to find out the number of gallons of foluol still to be delivered under the contract so that Lewis can bring suit against you.

Blay it

of course, we shall have to answer the question sooner or later, but in the meantime, and until you return librth, it would be my plan to pursue dilatory tactice, namely, by replying to this letter and saying that we do not know when the Equitable Trust Company can expect another payments, as we cannot make shipment on account of an embargo laid by the relirond companies. They will reply to this repeating the question as to the number of gallons of Toluol still to be delivered, and we can simply delay replying to this s few days longer.

H. MEADOWCROFT.

were

Enclosure.

_pril 15 th. 1916.

The J. R. Eutkine Medical Co., Winona, Minn.

attention of Mr. C. K. Goldsborough.

Gentlemen:

Your favor of the sixth instant was received, but b fore replying I was obliged to commult with Mr. Edison who is in Floridu at the present time.

I have just received word from him that he is willing to contract for a period of six months, commencing June
lst or July let, whiever, you prefer, for 400 pounds per month
of Carbolic Acid crystals at 804 per pound. We could not guarantee
the Carbolic to be strictly U. S. 2., but it would be of the
same quality as we are now shipping to you. This constation is
made subject to prior sels.

I regret to say that we shall be unable to make you a quotation for a monthly supply covering a period of one year, as we have not yet secured our acids and other supplies for next year.

Yours very truly,

MI. DU PONT DE NEMOURS X COMPANY
WININGTON, DELYAME
UNCHASING DEPARTMENT
Thomas A. Edison-Laboratory,
Orange, N. J.

Dear SAT:

Your inquiry to our Mr. Walter S. Carpenter
on the vonnage of Mixed Acid has been referred to the writer
for attention.

On looking into this scatter from every angle
we do not believe we are in a position at this writing to
state finally that we could undertake the handling of such
a tonnage, and, consequently, fear that you sust consider

It is quite probable that our good friends
the various Acid Companies, such as the General Chemical Co.,
Grasselli Chemical Co., Butterworth-Judeon Co. or Contact
Process Company, could handle this business. If you do not
see your way clear to contract for your tonnags with any outside
concerns, we would request that you take the matter-up again
with us, asy Jupa let, at which time our position regarding
1917 will be very much clearer.

We thank you for having placed your inquiry before

ua.

us as out of the market.

asspedtfully,

PEG/HW

pui bua

April 17th. 1916

Mr. John Bacon, Jr., The Edison Benzol Plant, Johnstown, Pa.

Dear Sir:

Will you kindly send me a statement showing how many gallons you have shipped of Benzol, Tolucl and Solvent Esphtha since the plant started up to the date of your last shipment. all I want is the grand total of each one, nothing in detail. Please also state the date of the first shipment and of the last shipment. If possible I would like to have you get this off to me by the end of the week. Mr. Edison wants these figures.

Yours very truly,

Workward

april 17th. 1916.

Mr. Claude H. Opdyke, 5 The Edison Bonzol Flant, Woodward Iron Company, Woodward, Ale.

Dear Mr. Opdyke:

Will you kindly send me a statement showing how many gallons you have shipped of Bonsol, Toluol and Solvant Membthe since the plant started up to the date of your last shipment. All I want is the grant total of each one, nothing in dotail. Please also state the date of the first shipment and of the last shipment. If possible I would like to have you get this off to me by the end of the week. Mr. Edison wants these figures.

Yours very truly,

Assistant to Mr. Edison.

P.S. Please also give me the same information for Sublimed Haphthaline.

Mr. Maison at contemplating the possibility of putting in a special plant to menufacture Farm and of Phonol. He is in Florida, but will probably be back within the next two weeks. Before he went seady he stand on of our chemists on a little ex-erimental plant, and the work has been joing on during his absence, and we are producing a very small quantity in the Laboratory.

Para _mido | homol is used for some other urpo es besidee photographic surposes. Photographic requirements would desend a puror ground than he other purposes suove mentioned, the latter product belief k..om as "commercial".

let you how shout this and to find out whether you would be interested in the groduct if he and to find out whether you would be interested in the groduct if he workshould be used to the the state of the probability of the state of the state of the probability of the state of t

Yours vory truly,

Mr. Telison with sec. (1) have a secretary and a secretary and

c. A. Edison, Benzol Plant bankira

Johnstown, Da., While - 18 101 6

Cur. The M. Meadowerght and to Un Edward, O range . h .

Wear Sir: attached please Suid statement of shipments of products from the

of shipments of products from the time the plant started to present last - I tuest our vive give.

you the desired impunation -

John Bacos Ja.

mpril 18th. 1916.

Swedish Chamber of Commorce, Produce Exchange annex, llew York City.

Gentlemen:

Referring to our tolophone conversation this afternoon, we bog to may that we unceretand that there is a demand by Swedish report manufacturers for Sulphite of Soda, and as we are producing this material at the rate of about a ton a day, we desire to call your attention to that effect.

We will forward a sample of our product to you, and shall be glad to have inquiries referred to us.

> Yours very truly, Edison Laboratory.

night Letter Combolic

Thomas a. Edison

Fort Myors, Fla.

Sorry to say we are running stior on occum. Have enough for over this month, but our contract for one hundred fifty tons per month will not be enough . Mason says will want nearly as much more . Uses liverty thousand pounds day. Spot ofcum one hundred felly dollars ton. Hoffman has option General for 3 months Chemical on one hundred tons months at one hundred dollars ton. Will shade if possible , but recommends accepting . Emery is stiepping around also. We will not have as much minely eight per cent over as you thought . I have gone over while situation today with mason and

Kammahoff. Better wire your instructions quickly.

N. H. Meadowerf 2

WESTERN UNION

VICE-PRESIDENT NEWCOMB CASH TON SEPRENCE

Carlosto

RECEIVED AT 10 NY H 63 NL

FORT MYERS FLO APRIL 20-16 W H MEADOWCROFT

EDISON LABORATORIES ORANGE NU

IF MASON USING TWENTY THOUSAND POUNDS HE IS MAKING TERRIBLE LOSS SOMEWHERE ONE AND SEVEN TENTHS POUND OLEMM GIVES POUND PHENOL BY MANY TESTS AM WILLING BUY THE EXTRA OLEUM BUT THESE LOSSES VERY DISCOURAGING WHY DOES KAMERHOFF TAKE WHOLE MONTH TO GET READY TO USE NITRE CAKE WHICH RELEASES PLENTY OF ACID IF THIS IS PUSHED YOU WILL HAVE ACID TO SELL.

EDISON 225AM

WESTERN UNION REPAIR

RECEIVED AT 21 NY H 33 NL

VI CHICAGO ILLS APRIL 20-16

NEW P MEADOWCROFT

CARE THOS A EDISON ORANGE NJ

THANKS FOR WRITING US REGARDING PARAMIDOPHEMOL PLEASE MAIL TO ME AT ROCHESTER SAMPLE OF THE COMMERCIAL ARTICLE TOGETHER WITH PROBABLE PRICE OF BOTH REFINED AND COMMERCIAL ALSO ESTIMATED OUTPUT AND EARLIEST DELIVERY DATE.

C W MARKUS

323 AM

"pril 21st. 1916.

Equitable Trust Company of New York, 37 Wall Street, New York City.

Gentlemon:

Your favor of the 15th instant was received and forwarded to Mr. Edison, who is in Florida.

He directs us to write and may that we do not know when another paymentscen be made on account of commissions under the contract of ir. Herbert Lewis with Mr. Edison. We have been unable to make any shipment recently on account of the embarge heid by the railway companies.

Yours very truly,
Edison Laboratory,

april 21st. 1916.

The Federal Graphite Mills, 120 Liberty Street, New York City.

Gentlemen:

Your favor of the 12th instant was received and for warded to Mr. Edison, who is in Florida,

He has returned it to me, asking me to write to you had get sample and price of the crushed iron which you manufacture as a by-product.

I would suggest a sample of three or four pounds, und would sek that you kindly address it to me personally at this address. There is such an immense amount of material coming here addressed to Thomas A. Edison that your sample might get side-trucked if addressed to him. Please quote in tone and carload lots.

Yours vory truly,

THE SWEDISH CHAMBER OF COMMERCE OF THE U. S. PRODUCE EXCHANGE ANNEX

JOHN LOKRANTZ GENERAL MANAG

NEW YORK New York. Abril 21st 1916. Please rufer to: A-135/16.

Orange, N.J .

Gantlemen:-

Mi lederen war war war of lease shall of alphale a grant shallon of the more of the war of the many of

We are in receipt of your valued favour of the 19th inst, rolative to sulphite of soda. We shall be pleased to give this marter our best attention and shall insert your inquiry in the next issue of our Trade Journal. Besides this; we are going to communicate immediately with the following business concerns in Swedon, who are interested in the import

of this article: Ad. Faxo, Malmö.

Percy Lundvall, 5 Västra Hamngatan, Cothonburg.

A. B. Hodström & Co., Attontion Er. Gunnar Brunn, Gothenburg.

Munkeduls Aktiebolag, Funkedal.

Munksjö Aktiebolag, Jönköping.

Aktiobolaget Axel Christiernsson, Stockholm.

Strömenäs Bruks Aktievolag, Strömenäs Bruk.

We notice with pleasure that you are contemplating opening connections: in Sweden, and our aim is to racilitate in every way the trude exchange between The United States and Sweden, we shall be only too pleased to give you all assistance in this matter. It therefore gives us special pleasure to extend to you herewith a formal invitation to become members of our chamber.

This institution was established 9 years ago, and the progress which it has mot with, especially during the last two years, is indeed

CONTINUATION

THE SWEDISH CHAMBER OF COMMERCE OF NEW YORK

THE SWEDSH CHAMBER OF COMMINGS OF THE SWEDSH CHAMBER OF COMMINGS

- 2 -

a testimony of the value of our services. The membership fee is only \$15:a year, and we hope that you will return at your earliest convenience the
annoxed sectorohip application properly filled out and signed.

We are sending you under separate cover a copy of our monthly bulletin, The Swedish-American Trade Journal, which you will as a member receive regularly.

Assuring you that we shall doon it a great pleasure to enter your name in our membership list, and always pleased to be of service, we are

Youro very truly

THE SWENISH CHAUSER OF COMMERCE OF THE U.S.A.

When the way .

General Manager.

1 encl. 1 accural repair.

471 44117

A. G. STILLWELL, B. S.

ANALYTICAL & CONSULTING CHEMISTS.

7614 PINE STREET



Analysis No. 20357

NEW YORK ___ April 21/16

CERTIFICATE OF ANALYSIS

of a sample of

received from T.J.Parker,4/20/16

CRYSTALLIZED SODIUM ACETATE

marked

Crystallized Sodium Acetate Anhydrous Sodium Acetate

99.15 % 59.76

butslite

april 22nd. 1916.

William H. Scheel, Esq.,

Hew York City. Attention of G.H.Lincks, Esq.

Dear Sir:

Referring to our telephone conversation of the 15th instant, and to the prices ;ou then quoted from your monufacture of lagnesium Chloride, I submitted the same to IIr. Edison. I have just received a momorandum from him this morning stating that the price is outirely too high for his purpose, and he can use the Calcined Oxide, which will be much cheaper.

to may, therefore, be in the market or Calcined Oxide from time to time, and shall expect to call upon you occasionally for quotations.

Yours very truly,

Dear Sir:

School on high

Concerning our telephone convereation of today we bog to advise that we can supply you on short notice Lagnesium Chloride substantially according to the following specifications. In carload lots-pure Magnesium Chloride containing not over 1 1/2; lime - \$120. Per ton.

Magnesium Chloride containing not over % lime - \$110. per ton.

Magnesium Chloride containing not over 12% Lime - \$100.

All F. O. B. Torks. Preight rate would probably be not over 12 or 15 cents per hundred. In comparises with the German chloride all of the above grades contain less impurities, although the grade quoted at \$100. per ton may contain trifle more lime. If you are going to use it forflooring you need not be afraid to use the third grade on account of its lime contents. There are concerns uting it for the same purpose that contain a higher percentage of lime.

Yours very truly,

Mr. Edison: I received your mone, yesterday resking me to get from Cheed gurtahim on American Magnessian Chlarida with love line. I immediately belaphaned him. He called up his manufactum in New Suyland on texplane a actual Chin to swile, School called me this morning and gave me the above Colle.

Apt. 15/16 from his Manufacturer. Mecchowreefs.

Noodward

Woodward. Ala. April 22-16 Who Wm M. Meadoweroft. Edison holosotory Orange H. J.

Bear Mr. Meadower oft.

The following are the grand totals

of moterial orificed up to date

3271120 " tolucal

15140 " bolvant Naftha.

147905/2 lbs NopEtholene

Benje first o Egment June 22-15. load ortifement april 22-16.

Lob Mohitha . - Oct 30-15 .. . Mar 28-16

Natheralem . Out 4-15. april 10-16

Stipped 136107 lbs nofthaline for the

your very truly

Henry Tord Hospital Patroviti

Haspital bourbulic

April 22 1916

8269

Mr. W. H. Meadowcroft, Thomas A. Edison, Orange, N. J.

My dear Mr. Meadowereft:

difficulty in procuring carbolic soid far an enormous cost. Insemed as it is used in the soid as soid as measurement of the difficulty in procuring carbolic soid at an enormous cost. Insemed as it is used in absolutely indispensable in commection with dissinfacting purposes and the sociating of our linear, we find that it will be impossible for us to continue at the great expense, and the moscessity, therefore, arises of installing equipment which we feel will be too expensive to operate after the price of carbolic acid again becomes normal.

We understand that the Edicon Chemical Works is now manufacturing carbolic acid and are writing to ask if it will be possible for us to procure the same from you. Our requirements run about 1 to 2 pounds per day.

Awaiting your reply with interest,

Very truly yours,

HENRY FORD HOSPITAL

Secretary & Treasurer.

EGL-D

Telephone Call | 540 dohn

Consider

Varnish Gums,
Asphalts,
Shellac,
Driers,
Chemicals, and
Supplies for
Varnish Manufacturers

WILLIAM H. SCHEEL, WERCHANT,

/VERCHAN I,
159 Maiden Lane and 37 Fletcher Street

New York N. Y. ADTIL 34

Mr. Thomas A. Edison,

Orange,

New Jersey

Attention of

Mr. Wm. H. Meudowerer't

Dear Sir:-

Your esteemed fuvor of the 22nd inst., is in our possession today. We regret the unfavorable response with reference to Enguesium Chloride. We understand now that you will utilize the Calcined Greeciam Magnesite as per the recent deliveries made to your goodselves. We will probably have an additional offering to present to your attention tomorrow and we are also at work on a definite proposal with reference to the Gulifornia product. This is said to take the place, in a very large measure, of the Greecian product at lower prices and of better quality.

With reference to the deliveries recently made would say that we cannot enter an invoice for the reason that the numbers of the barrele are not yet in our possession. You understood of course that our invoices were to be rendered on a net cash ten day basis. In fact we paid cash against delivery order and naturally would like to have the matter settled as quickly as possible so that a remittance could come to us by early mail. Instruct your aniline Plant therefore to send to us the numbers

WILLIAM H. SCHEEL

NUMBER

4/24/15/

Mr. Thomas A. Edison.

on both shipments so that an invoice can be rendered. We particularly desire the numbers on the first shipment.

Yours truly,

GHL-GJK.

Miller Company

Calle Soldiess "Edison New York" bourbud Trom the Laboratory Thomas A. Edison, Crange, NJ, April 26th. 1916. Cambria Steel Company, Johnstown, Pa et paid for our work Gentlemen: During my absence in Florida, in Leadourerth has had some telephone conversation with you about the disposetteen of the crude inheulthaline at my Bennol Plantiflocated at your Corise as he informed you, it was my understanding, although not specifically mentioned in the contract, that all the by-products or tracted from the gases would naturally be at my disposal. in regard to my long little ton the condition existed in regard to my long little ton truct with the too deard Iron Compeny, and later, when we found we could dispose of the Hephthaline, it was arranged that I should pay for it on the same basis as if it were Solvent Hephtha, figating 7.25 pounds por gallon, then making the royalty 1 1/4 cents per pound for the Hephthalian contractions of the solvent per pound for the Hephthalian contracts. theline. I understand that this arrangement is agreeable to the Cambria Steol Company, and would, therefore, say that I am willing to sell my crade Amphichains to the concern you mention at 2 1/2 cents per pound, CM I will pay the Cambria Steel Company a rogalty of 1 1/4 centy per pound. Trusting this will be satisfactory, I remain Yours very truly, M. Edison: Yes, this is what I did mean. You see, the Combina to want to look at it on the basis of naporthaline belonging to them, as it was not mentioned Contract, and I thought that masmuch

id to the studge, so I

as we only have about a carload and way , we had better make a low piece collection will arise in higher to the strates

April 26th. 1916.

Mr. H. F. Millor:

In regard to the shipment of Colucl under our contract with J. P. Morgan & Company for the British Government we have at last received word from the forwarding eponts, Lunium & Moore, that the connecytenia Reilroad Company will authorize their Johnstown Agent to accept the last two chipment, namely, late Noc. 9 and 10. I have telegraphed Mr. Sucen, therefore, to make the chipment.

I have two objects in view in sending you this memorandum / one is to notify you that no send in ow be able to make the shipment, the other is to call your attention to the fact that there is nows dispute in regard to the commission of in. Horbort Lowie, ... and the matter is being taken up by our Logic Department.

I, therefore, want to call your particular attention to this and to ask you not to pay lowis' commission until you have the sanction of ir. Edison and the Legal Department. till you please advise so then you have received payment from J. 2. Morgan & Commany. I will send you the bill of lading and chipping lists in due time after the shipment is made.

In order to avoid any ressibility of any clip-up I am sending a curbon copy of this memorandum to Er. Follow and to Er. Hess.

W. H. MEADOWCHOFT.

EASTMAN KODAK COMPANY

ROCHESTER, N.Y.

Mr. William H. Meadowcroft, Laboratory of Thomas A. Edison.

Orange, N.J.

Dear Sir:

April 26,1916.

We have concluded our experimental work on the two ounce sample of Commercial Paramidophenol which you sent us and although this chemical possesses no developing properties whatever, this condition influenced us in making a further analysis which leads to the discovery that the material is Paranitrophenol. Have you a price on this latter article?

EASTMAN KODAK COMPAN Mr. Ections note purchasing Agent.

You are markers the purchasing Agent.

Heat they mr. markers, certain market. Men has the effective to worth on the large of this world, market, and a said a s

Yours truly.

ALL CONTRACTS SUBJECT TO STRINGS, ACCIDENTS AND SAUSES SETUND OUT SONTION.
ADDRESS ALL BUSINESS COMMUNICATIONS TO THE COMMAND AND NOT TO THE OFFICERS ON CAPACIFICATION.
ALL WOODSWAND.
ALL WOODSWAND.
ALL WOODSWAND.

WOODWARD IRON COMPANY

WOODWARD, ALA. April 26, 1916.

ir. Thomas A. Edi

Orange, H. J.

Dear Sir: -

Com you got L

We are in receipt of yours of the 21st in regard to making a contract with the American 011 & Supply Company for a period of eighteen months covering their supply of sublided naphthalene flakes, their requirements being from 16 to 20 tens per wonth.

We note that they offer 10% a pount. As we understand it, this price is f. o. b. Howark. We are willing to accept the price of 10% a pound but hope you will be able to got 100% to help take care of the freight.

We would also want some provision in the contract that would protect us in case we found it necessary to shut down our benzel plant during the period covered by the contract. We take it as a matter of course that you will want to protect yourself in the same way.

Yours truly,

WOODWARD IRON COMPANY

Vice President.





TO CONFIRMATION FROM OFFICE WHEN ORDERS MILLS AT BERLIN, N.H.

CABLE ADDRESS JRSULPH, PORTLA A.B.C.CODE.

William H. Meadoweroft, c/o Thomas A. Edison Laboratory, Orange, Now Jersey.

My dear Mr. Meadowcroft :-

Your favor of April 18th in reference to sulphite of soda reached this office during my absence. In the meantime, however, my assistants communicated the contents of your letter to our Emufacturing Department and they advise us that while we have not used sulphite of scda in our process to any extent, we might be able to use it, if we could obtain it at a price that would compete with the sulphite of calcium which we now use in large quantities. We would appreciate it, therefore, if you would advise us at what price you could furnish this product in carload lots, and you can possibly estimate our probably consumption from the fact that we use about 60 tons a day of lime.

We shall all be very pleased to see you and your family back at the Cape this year, and you will be interested to know that a number of the neighbors have already moved over there, and we shall join the crowd about the

The feether the second of the second of the noighbor to the no

Juline

April 27th. 1916.

american Printing Company, Fall River, Mass.

Gentlemen:

settled state of the market for eight his ere me terials, which hem offered all income and thing of the method to the method to

whether or not my present customers will desire to make now contracts with me for the year 1917. If you will kindly consider this matter and adviso me at your early concused t can be small obliged.

Yours very truly.

April 27th. 1916.

Dr. Fr. F. Zuendig, Wallisellon, Zurich, Switzerland.

Dear Sir:

Your favor of the sixth instant has been handed to Mr. Edison, and he has read the same with much interest.

He wiches me to say in reply that to are interested only in buying a process for making Peraphenylomediacine that is a cheaper process than the award one, in which Hirto-Accentilità it comployed. Giacial acetic Acid is very exonative at this time, and we want to avoid the necessity of uning it for making Paraphenylomediamino. Hr. Edison thebes to know thether you can offer him a cheaper process, and if so, at what price. He says that later on we may want to buy other processes.

at the present time we are manufacturing aniline Oil, aniline Salt, raraghenylenediamine, Para Amido Phonol, and shenol in large cuantities.

Yours very truly,

Assistant to Mr. Edison.

Carbolic

April 28, 1916.

Ritsui & Com Any, Limited, 25 hadison Avenue, New York City.

Attention of Mr. Takaki.

Gertlemen±

17

You have 'robsbly notioned by the newsapors that we are briving a strike at our Cerbolic Flant at Silver Lake. It has bated three days so far, and we do not know when it will be over, but hope that it may not last much longer.

I om davising you rhout this, as it may effect the deliveries under your existing Cerbolic contract. I thust, however, hat there will be no serious delay.

Yours very truly,

DOMINION STEEL CORPORATION, LIMITED
SUPPLY, NOVASCOTION
CARGE ADDRESS DOMINATION: A SUPPLY AND A

Hr. Flummer, our ex-Fresident, spoke to me some time ago about our arrangement with you covoring Bensol, and asked that I have the matter put in proper form. Since Mr.Flummer's resignation I have been extremely busy, and have only now had an opportunity of attending to this matter.

I have pleasure in enclosing herewith contract form in duplicate covering the arrangement Mr. Plummer made with you some time ago, and will be very pleased if you will sign the same and return to me here for completion.

I hope to have the pleasure of meeting you in the not very fer dictant future, and if time permits, will make it a point to go over to Orange some time when I am in New York.

M' Edison Yours very truly,

How is the new contract Mark And at lost.

For your information I attack President.

copy of the memo, which your and M' Glummer initialled.

Meacheverefs.

GOLDMAN, SACHS & CO.

60 WALL STREET

CABLE ADDRESS "COLONESS"

CONFIDENTIAL

8438

and

Day agak they are very large Dyers

Mr. Thomas A. sidison, of fure & very culentersing we sast orange, N. J. sell them about 6000, charles

Dear Sire:

of medicards fath with hours

We take the liberty of addressing you with a niew

hard manufacture there

of obtaining an expression of manufacture of these

of obtaining an expression of your opinion as for financial standing, character, etc., of the following concern:

A. Hollander & Son - Newark, N. J.

Any information that you care to impart to us will who be appreciated, and, needless to say will be held strictly confidential and without any responsibility on your part.

Thanking you in anticipation of your courtesy in this respect, and assuring you of our pleasure in reciprocating at any time, we remain,

Tte

m' Edison

We Know nothing of their furancial standing but they buy about \$16000 worth of goods a month from eas I have always faid furnished. Meanwest.

It! Menonient

1/2/16

1. Curl

April 29th. 1916.

Mr. Edison:

You will probably romember that we have had on hand at Silver lake for a long time peat some Toluci which Mr. Kemmerhoff obtained in distilling some of the 90% Benzel shipped to ue from Johnetown many months ago. There were about 512 gallone, and you end a might sell it.

It is not as pure as the regular Toluci made at Johnstown, and I sold it on eample at $\Im 3.60$ per gallon.

Now erises the question of billing. All Benzel goes through the Incorporated. Therefore, this tolued has entered into their accounts, and in the first place will have to be billed by a function of the country. All the country them. I contend that this folued ought to be billed, by Thomas A. Edison at the sale price, so that it becomes a credit to your Johnstown Plant agrount. Otherwise, you would not know what profit or loss your Johnstown account will show.

If you coincide with this view, the question to be cettled in what price shall the Lucorporated charge Thomas A. Edicon. I think they ought to charge you the same price so they charge the Carbolic Division for Bensol, plus on allowance for labor, eteam, etc. used in the distillation by Xummerhoff.

MEADOWCROFT.

Para

..pril 29th..1916.

Eastman Kodak Company, Eochester, H. Y.

Attention of Mr. Markus.

Dear Mr. Markue:

he certainly made a stupid blunder in sending you Park Hitro Phenol instead of Park Amide Phenol. I asked one of our young men in the chemical room to get out the cample for me, and it was he who made the blunder by taking as out of the wrong package. The young men in question is cimply one of the helpers, and not one of our chemists. I am rather schamed that such a mietake chould have been made.

However, I am eending you by this mail under separate cover a sample of hara Amide Phenol. This is the commercial material. For your purposes we chould expect to furnich a refined product, and we are now working to get it in satisfactory chape. In the meantime, you can exportment with the esample that is being forwarded. Our photographer has had some good results with it.

Youre very truly.

assistant to Mr. Edison.

PARAPHENYLENEDIAMINE

Parg Shipua

First Week	Regular Shipments for month of april, 1916 American Oil & Supply Company - 150 lbs. at \$2.85 American Oil & Supply Company - 150 lbs. at \$2.85 But a
Second Week.	American Oil & Supply Company - 100 lbs. at \$2.85 3.50 3.50 3.50 3.50 3.50 3.50 3.55 3.50 3.55
<u>Third week</u>	American Oil & Supply Company - 25 lbs. at \$3.75 Hollander - 350 "
Fourth week	American Oil & Supply Company - 25 lbs. at \$3.75 3.75

REPORT FOR HONTH OF APRIL

```
5.16 per day
                                                              155
             Sulphonations
                                                              302
                                                                               10.2
             Salting
                                                                              138.4
                                                                                         **
             Cans Contrifuged
                                                             4153
              Contrifuge Loads
                                                             3903
                                                                              130.1
                                                          600164
              Salt from Dryer
                                                                                1,347 " = .067% Bodius
                                                            40435
              White Salt
                                                                                                           Salt
                                                                                 4.9 por day
                                                              347
             Pusions
                (33 of 3600/ - 114 of 4200/)
(Salt used in fusions checks with weight of salt from Dryor)
                                         265344 gals. = 8844 gal. por day
33264 " 1108.8 " " " = 12.53% of Phenolate
     Phenolate sent to CO<sub>2</sub>
Acidified Phenol Total
     Phonol Acidified by Hitre Cake
                                                              4000 gals.
     Phonol from Nitre Cake
                                                              512
                                                            33776
     Total gallons Phenol
                                                            33605
                                                                        **
     Phonol distilled
                                                           205849 1bp.
                                                                                     6861 por day
                                                                               =
      Lbe. Pure Phenol
Assume 159 sulphonations at a theoretical production of 4600/ Bensel Bul-
phonds Soda per sulphonation squals 713,000/ - Actual Production 600,160/
1008 5% - 570155 Dry Boncol Bulphonds Boda
40035 Mitte Galt
(BUST) Total Dry Salt - 85.6% recovery of salt.
      Assume 3600 lbc. Dry Salt = 1550 lbc. Puro Phenol then 610591 " " " = 262980 " " "
                                              = 205849
        Actual Phenol
              Recovery of 81.6% of Theoretical
85.6% X 81.6% - 70% rec
                                                  70% recovery.
```

He was 12 10000 gareout 11 The Carry of the I saw Me Plummer of resident burn He wants Talualay Think will pay 450 To dellars - Letter Know

Edison General File Series 1916. Chemicals (E-16-16) May

May 1st. 1916.

Merrimack Mfg. Company, Lowell, Mass.

Gentlemen:

You are probably quite well-trare of the unsettled state of the merket for all kinds of raw materials, which has affected all lines of commerce. Like other meanth the state of the state of the state of the state of the the beginning of the swe in Europe, and now find myself in the position of being compelled to decide very quiterly mother or not I chall continue to remurfacture distillate of next year. The great distillation are remurfacture distillated in some properties of the state of the state of the state tion very quickly if I can to remain in the outsiness.

I can only decido the question by ascertaining whether or not my present outcomers will desire to make now contracts with me for the year 1917. If you will kindly consider this matter and advise me at your early convenience I shall be made boilgod.

Yours vory truly,

Catto Addens MINSUR & CO. HAMEED Mitsui, N.V. (Mitsui Bussan Kaisha, Sut.) LONDON TOKIO MILES OTARU SAPPORO MOUKOEN TIPLING SEOUL YOKOHAMA TIENTSIN CHEMU LPO LYON KARATSU TAIPEH CHEFOO ANTOHKEN PETROGRAD KODE KURE HANKOW KWANGHINTU DALLAS KISHIMA CANTON SASEGO SWATOW SAN FRANC NAGABAKI RANGOON PORTLAND MOUI MAIZURU SHANGHAI AMOY HEWCHWAN FOOCHOW SOURABAIA MANILA MURORAN TSINGTAU CALCUTTA GOMBAY CHOSHUN PEKING SYDNEY SINGAPORE MIYAKO VI ADIVOSTO GIRIN TSUBUGA 25. Madison Strenge May 1. Hooker Chemical (1) Neagara Fiells make Electrolytic or sufg looker 4 Chlorene Thos. A. Edison, Inc., Orange, N. J. Attention of Dear Sirs:

of Think can favorage yo Some time last summer I remember you told me that you can get the man to build a liquified chlorine gas plant in Ruseia, and now I have a cable from abroad asking me to find out at what price I can buy complete set of experimental plant for making ohlorine, and also asking me to get gas generator with capacity of 2 ou. ft. per minute and dryers and compressors to charge eame into bomb.

I shall be grateful to you if you will kindly give me your personal advise as to how I can obtain this experimental plant. Thimzo Jakaki

Very truly your

ST/KN.



TREASURY DEPARTMENT 102664 OFFICE OF THE SECRETARY

WASHINGTON

May 1, 1916.

Mr. William H. Meadoweroft,
Assistant to Thomas - Edison,
Orenge. R. J.

sir:

I have to refer to your letter of the 12th ultimo requesting information relative to the duty on crude naphtheline and refined naphtheline from Canada.

In the opinion of the Department either Grude or refined amphthaline is free of duty under paragraph 452 of the tariff act of 1913, which paragraph provides for the free entry of amphthalin.

Respectfully,

Acting Chief, Division of Customs.

No Enclosure.





May 1 1916

Mr. W. H. Meadowcroft, Thomae A. Edison, Orange, N. J.

My dear Mr. Meadowcroft:

advise that we are trying out the sample of Carbolic Asia which you sent us. If it meats with our requirements, with the very glad to place an order for 50 pounds at price quart 77 mg per pound, and to continue ordering to meet our meets.

Thanking you for your courtesy and, with personal regards,

Very truly yours,

HENRY FORD HOSPITAL

Secretary & Treasurer.

EGL-D

May 3rd. 1916.

Mr. J. E. Marriner, The Burgess Sulphite Fibre Co., Portland, Me.

Dear Mr. Marriner:

main.

Your esteemed favor of the 16th ultimo was received, and I waited to show it to iir. Edison before making any reply. He wants me to thank you for the information which you have so kindly given, and to say that it would be of no use whatever to quote you a price on Sulphite of Soda, as we could not possibly compete with lime. The difference is ton great.

The last few days of worm weather has given me "the Cape fever". It really looks now as if we would have some warm weather.

with kind regards to you and yours, I re-

Yours very truly,

Duplicate

Para

Zurich, May 3rd, 1916. 47 rue du Sighi

Mr. Wm. H. Readoweroft,
Assistant to Mr. A. Setson,
Orange.

Dear 'ir:-

I duly received your favors of Earch 27th and April 1st and have taken due note of their contents.

As to the number ture of propherylandisains I am in a position to offer you a very good process taken from my practical experience giving very good yields and its cont price being for below that the one obtained through the process with nitroscetarilide on account of the gladel acotic acid being a very great drawback.

I am quite propored to code this process to you for the num of \$200.- { twohundred dollars } . The equivalent of this amount, which is payable in adva on, would have to be remitted to me either directly by check on London or to the Société de Crédit Smisse, Zurich, for the oreait of my account.

 $\label{eq:condition} \text{ Foodless to may that 1 am always at your disposal for } \\ \text{eny further information you may desire.}$

I remain, dear Bir.

Yours truly, nor Dr. W. Knecht

References:

American Consulate General

Zurich.

6 Volnecht

GENERAL ELECTRIC COMPANY PRINCIPAL OFFICE

SCHENECTADY, N. Y.

Please make separate reply to this inquiry.

Edison Mooratorie

Schenectady., N. Y., May 3, 1916.

barbelie

Dear Sirs:

Kindly quote us by return mail on the following material to be delivered AMAN. F.A.S. How York, suitably packed for export -

7,220 lbs. white gristalline phenol. We could not spore Take the order we Max iveeles Delivery required at destination: State earliest delivery.

State what delivery you can make.

Quotations to be complete should include terms of payment -net and cash discount in 15 days.

Charges for packages will not be allowed unless mentioned in quotation and accepted by us,

Yours truly,

PURCHASING DEPARTMENT.

J. R. Bowman,

JRB: SS

400

PD-83-a 15m 3-6-16



Ceneral Electric Company, Ecnenectady, N.1.

attention of ar. Bowman.

Cour Sir:

be delivered Width B.4.3. Ben Louis surfably.

Lism druter vd an etono vlbury A'SSO TES. EFILE CERESTITUE.

Schonect ad 3

EVECTOR, 7. F.

Your request of the third instant for quotation on 7,220 pounds of white crystalline phonol was received, and I beg to quote you 85¢ per bound, F. a. S. New York City, suitably packed for export. This price includes the packages. Deliver of this phenol could be made

within one woek from receipt of order.

The above price would be not 30 days. Our oach discount is usually at 10 days from date of invoice, but we have heretofore allowed your company to take the 1% cash discount in'15 days. This also may apply in this case.

Yours very truly,

EASTMAN KODAK COMPANY

Para

ROCHESTER, N.Y.

May 4,1916.

Dear Mr. Meadowcroft:

We have completed our tests with the sumples of Commercial Paramidophenol which we received from you last and while the article is comewhat crude, we believe that we can manipulate it so that it can be used. We would, therefore, be very much interested in knowing what quantities you would be prepared to offer; now come delivery could be made and what the price would be. In case you contemplate supplying the purified product, you might let us know about that also

Yours truly,

Mr. William H.Meadowcroft, Laboratory Thomas A. Edison, Orange, N. J.

ADDRESS REPLY TO PURCHASING DEPARTMENT

Caffe Soldens Milsni, N.Y

KUCHINOTZU

NIIGATA

TEURUGA

MINISTUL & CO. LIMITED

(Mitsui Bussan Kaisha, Ltd.)

TOKIO WAKAMATSU YOKOHAMA KARATSU YOKOSUKA OSAKA KISHIMA NAGASAKI SASEBO MOJI MURORAN

AWOMOR

SUNADAWA

our thanks.

OTARU TAIPEH TAINAN CANTON HONG HONG SHANGHAI NEWCHWANG CHOSHUN MADRIN VLADIVOSTO DALNY HOUKOEN TIELING TIENTSIN CHEMULPO CHEFOO KWANCHINT HANKOW SWATOW AMOY BANGOON FOOCHOW SOURABAIA TSINGTAU CALCUTTA PEKING

LONGON HAMBURG LYON DETROGRAD SAN FRANCISCO

Richberg 10010. Unitis

SINGAPORE 25 Madison Shonuc.

Jakar.

New York May 5,

There wachlorine plant in Operation at the Michigan alkali works Wyandall much Thomas A. Edison, Inc., Orange, N. J.

might sell you the Brawlings or feverent a

Gentlemen:-

We have your letter of the 4th instant, regarding the liquefying chlorine gas plant, for which kindly accept Arnold Haffman VCo Ke

GIRIN

The Hooker Chemical Company, Niagara Falls, has already made arrangements to sell their patent to our competitions in Japan, and we shall be much objiged to you if you know that Niagara Electro Bleaching Company is equipped the Galdamid in Elevanic to make liquefied ohlorine gas.

O Ca alas make You kind reply will be highly appreciated.

Yours very truly.

ST:VC

DARBOLIC ACID DIVISION.

Where developing the property of the

as to how much row machine indicate that it is not quite cierr to yes (000 as to how much row machine may naturally no eight to receive per nonth, or what quantity of P. Fhenol produced per day is to be considered as normal. To clear this matter up theroughly, I think it rescenary to the thirdly inform you about the development and the present estuation of this Division.

At the etart of the last fiscal year, that is, in March, 1915, a production of 4,000 pounds of P. Phonol was considered as maximum, and contracts for the necessary raw material were closed by the Purchasing Department. When later Mr. Edison decided that our production ought to be increased, a standard of 7,000 pounds por day was adopted as normal maximum. This would be equal to 210,000 rounds of P. Phonol per month, or 30 days. From the accompanying blue print you will observe that so far we have only in one month, in November, 1915, reached a production of nearly 200,000 pounds, whilst during the following month this figure dropped to about 160,000 and 170,000 pounds. This variation was due entirely to lack of raw material, and it is this situation which induced me to ask repeatedly for a copy of our contracts for raw material concerning this Division. It is still not quite clear to me whother our contracts for raw material cover a production of 210,000 pounds of P. Phenol per month or not. Bonzel, as well as Sulphuric Acid, is used not only in this Division, but to quite some extent in the Phenol Division of Thomas A. Edison also, and this is the reason that frequent exchanges have taken place, according to Ir. Edison's and Ir. Meadoworoft's directions. When, at certain times, we have been using so-called "Oleum" or fuming Sulphurio Acid, it has been delivered to us from Er. Edison's Phonol plant in exchange for 98% Sulphurio Acid, and we still at this time have to deliver them 16,221 pounds of 98% Sulphurio Acid in exchange for Oleum proviously received by us. Whon, furthermore, we have used, and still are using to a certain degree, so-called "Chumber Acid", i.e., Sulphurio Acid of about 70%, the reason for it is again we have been supplied by in. Edison's Phonol Division. As for as I know from Mr. Mosdoworoft, no more Chamber Acid will be delivered after our present stook, enough for another 20 days, has been used up. Instead, so-called "Hitric Oako" will be used, according to Mr. Edison's instructions. This Nitric Cake has previously been used by Mr. Edicon's Phenol Division, and we have at the present time sixteen carleads of uncrushed nitric cake in stock, to which during those days will be added twolve carloads more. We have taken, and are ctill taking this Mitrio Cake in stock because Mr. Edison's Phonol Division can not store it. The Mitrio Cake is a substitute for Sulphurio Acid of 98%, or of so-called "Chamber Acid", and Mr. Edison wants us to use Nitric Cake as soon as possible, because it oun be bought in any desired quantity, and comparatively cheap, whilst prices for Sulphurio Acid are going higher all the time.

 4-0-16.

infor those directatorses, it is obvious why to no pressing you co hard for the directat parts of modificary which you enhand from largel, and which, exceeding to your latest called, will be delivered in the near fature.

In order, now, to enable you to everyout the estimation patte electly, I hereafter an always you three different lists, i.e.,

First, our dorsed for rea reteried by using 95, Sulphente Andloshy, Coconi, our demail for rea reteried by using feetly 95, Sulphente Andl, and partly Christon (edd., "Three, our demail for rea restorated by using partly 95, Sulphente

Third, our dexest for real material by using partly 90,5 Calpinule hold, and partly by using so-called "filtric Calm".

In cl1 throw lines the manual dully production is supposed to be $T_{\rm q}$ 000 pounds of P. Humel, or 210,000 pounds for month, or 50 days.

By using 90, Sulpharic . old only. Pirot: Por Day Cotoriol ror Contin 1,353 mls. or 9,000 lbs. 40,572 mlo. or 294,000 lbs. 1,260,000 lbs. Bonnol. 42,000 lbo. dulphurio acid, 90, Limontono 24,500 7.5,000 Coda Joh 5,250 157,500 400,000 Countie Sodn

monorale by uning partly 90, salpharic hold and partly dumber told. Interial For Dec for Jonth 40,572 gales or 394,000 lbs. Dongol. 1,352 mis. or 0,000 lbs. Sulphurio Acid, 985 705,000 lbs. 24,500 lbo. 01,500 " 21,500 " Chambor Acid 7:5,000 735,000 167,500 Limostono 5,250 " dolla Joh

Cametic both 15,000 " 420,000 " 420,000 " Entertie both 15,000 " 420,000 " 4

| 2,653 | 2nh e | 0,600 | 10e | 0,000 | 10e

If I understand the otherion right, the contracts closed for restriction over been entricted they be provided for a production of 7,000 panis of 2. thenel per day, or 20,000 panis per could. In one this consideration into our state of restriction lies on been growing to the perfect of the restriction of the restrict

ir. . . . innry. inrohesing lost.

4-G-16.

emberial equal to 210,000 pounds of P. Phonel contidg, our steat should have (room you, much higher.

CORDS COLLEGES.

Bonnol 21000 (nlo.,	œ	152250	300
Julmharic Acid, 90;	-	700000	17
Shrunbor Acid	-	550000	**
Limostono	-	735000	19
Soda Ash	_	157500	19
Countie Sode	-	420000	"
rateute from 15 cores, or about		675000	17

I took appropriate it very much if you would fower to with one core information as soon as you have arranged that I can count on larger presistion of the material contag in-

A

deploy to Comera. Condenserate, ... Home, Lambort and . wate.

45 Park Place NEW YORK MERCK @ CO.

bacholic

MANUFACTURING CHEMISTS

NEW YORK,

May 8th, 1916.

ST. LOUIS MONTREAL

Main Works G/WFC/ RAHWAY, N. J.

The Laboratory of Thos. A. Edison,

Orange,

Gentlemen; -

Kindly favor us with samples of your Sodium Sulphite - Shale I seed both Kines or only Sodium Acetate

which we desire to examine and hope to find suitable for analycecus mearoway our use, in which case we will be pleased to pass some orders your way.

Incidentally we wish to inquire if you have considered further the matter of manufacturing IRON BY HYDROGEN

about 90%.

Yours very truly,

MERCK & CO.

Attested: M

which comes from one weng such photos wa do not come to use a Morides as the would after our present apparales or we could not produce it as Cherephy as was do from susphortes you already have had a sample which you toward down on near of the sulphus 24 12 197541



Mr. Thomas A. Edson,

Orange, N.J.

Dear Sir:

Replying to your letter of May 6th guoting us on new contract for Aniline Oil for 1917, 45¢. We are not in a position at this time to cover our requirements for 1917, but we would very much like to contract with you for the balance of the year 1916., that is, from June, when our present contract expires, for 45¢ per 1b. Our use of Aniline Oil is very irregular, but possibly in a few months hence we may be able to determine regarding quantity for 1917.

Yours truly,

? (Fradlig)

Millson State we to it of and in Jot leaders of the autocounty.

NED TOG china

la hilis

DR. H. SCHWEITZER 117 HUDSON STREET

NEW YORK. May 8, 1916.

Mr. W. H. Meadowcroft,

Thomas A. Edison, Inc.,

Orange, N. J.

Dear Mr. Meadoworoft:

When I eaw you on Saturday you expressed a desire to acquaint yourself fully with the indications of aspirin, and I am therefore sending you a pamphlet which will afford you complete information on the subject. I am also enclosing a copy for irr. Edison, as I wish to tempt him to abandon his policy of not taking any medicine, and would appreciate it if you would hand it to him.

With kindest regards, believe me,

8502

Encl. 2 pamphlets on aspirin.

Usodward Contract runs for 2 years pure but the principal Contintion of make is that in View of the foot of my on 121,21 and my product or 821,001.

Ir. Bilson;

The traffic officials of the schicks, alliveds will hold their annual meeting at hot Springs, Va., on the 15th inet, as which time them on class rate basis. All seems that the commodity rate of 36f per Cut, which we have enjoyed for the past year will be advanced to its former basis of 66f per Ort, unless we can show reasons why the present rate about he maintained. I understand that our contract with the Southeard Iron Congrany will not expert for two years more, benefit and would sake permission to attend the meeting to oppose the

They should not necessary of the price of fraction with fam 191000 to Hr. O. H. VIII of D. Source of fraction with fam 191000 to Hr. O. H. VIII of D. Source of fraction with fam.

Lay 9, 1916.

Mr. Mandowcroft.

In line with our conversation this scening, will you please arrange to hand to me just as quickly as possible, all contractual obligations of every nature covering purchases of material for any of the 2010on organizations, personal or corporate, as I have been instructed by Mr. Editor personal or corporate, as I have been instructed by Mr. Editor personal or corporate, as I have been instructed by Mr. Editor personal or corporate, as I have been instructed by Mr. Editor delivery of all thems of every nature for these various interests, with the sole exception of petty cash expenditures which may be made by augmon at his direction.

This morning I have invoices on my table from the Aniline plant covering excess borings, bennol and various other items. I find on meaching our contract register that mome of these contracts are in my hands and others are not, and in order that I may have an intelligent grap, of the situation I must have the official documents before he just as early as may be.

A.O. Book of interiors by heat as early as may be.

A.O. Book of the control of t

responsibility and says he wile see to the election of makingles to the plants. Therefore I will keep hands off on that part.

ettern IIIs

May 9th . 1916 .

Mr. Emery:

I received your memorandum \$1600 of this date asking me to haid to you copies of contracts covering purchases of material for any of the organizations, personal or incorporated. In accordance with your request is mending you copies of the following contracts, the originals being in possession of Mr. H. P. Miller.

ACIDS

American oil & Supply Company, contract for Oloum for three years ending Docember list, 1918.

American oil & Supply Company contract for Mixed acids ending Decomber Silt, 1916.

Butterworth Judeon Company contract for Mixed acid ending December Silt, 1916.

Butterworth Judeon Company contract for Spont acid ending December Silt, 1916.

Butterworth Judeon Company contract for Spont acid ending December Silt, 1916.

You have the original contract with the Genoral Chemical Company for 995 Sulphuric acid (200 tons a month) for three years ending

BENZOL

December 31st. 1918.

We obtain Sensol From atx sources, messely, Mr. Edison'te Sensol Plants at (1) Johnstown, Fe. and (5) Loodward, Alex., olso (3) from the Dominion Iron & ticel Company, Sydney, Howe Scotia. The other three sources of supply are (4) likeluabe Obta and Oas Company, (5) Horthwestern Iron Company, and (6) Hewest Hydro Carbon the Bernstein of the State of the

CAUSTIC SODA.

Copy of contract with sing and Evans, duted betober 14, 1911, covoring 8100 tons of Counts Code in equal monthly deliveries beginning April 16, 1916 and ending April 16, 1917, 1878 for a month Besides this contract there ought to be in your office two other Caustic Sode contracts with hing and Evans and Thomas A. Edison, Inc., datob reproductively, groupshy, 2nd and December 8th, 1911, one contract covering 1900 tone, April, 1916 to April, 1917 and the other covoring 300 tone January to June, 1916, 186 for a month of June, 1996, 1911, 1916 for a month of June, 1996, 1911, 191

NITRE CAKE

Copy contract with Buttorworth-Judson Company for Mitre Cake, December

Mr. Emory:

Elst, 191L to December 20th, 1916. Copy of contract with E. I. Du Pont de Homoure & Company for Hitre Cake, January 25th, 1916 to December Slot, 1916.

-2-

CAST IRON BORINGS.

Copy contract with .. M. Wood & Company, Inc., for Cret Iron Borings, February let to August 1st, 1916.

SODA ASH.

There are two existing contracts with the american Oil & Supply Company, one being for two cars a month for the year onding anguent 1916 and the other for one car a month for 10 months beginning Eurch, 1916. I have mover had these contracts, nor copies of them. They are in your office.

COMMON FIRE SALT

Copy contract letter with C. G. Winan & Company, Howark for one carload a month until further notice, this Rotter being dated agree 527d, 1916.

CALCINED MAGNESITE

Copies of various letters covoring an unfilled contract for one cerload of Calcined Emgnestte at 500.00 per ton, ordered from the Eilled Products Company, Chicago.

W. H. MEADOWCROFT.

(Sandar

Mr. Edison:

May 10, 1916. C.C.--Mr.Wilson. On July 12th, 1915.

I savised you that I had been successful in having the Pennsylvania and Eric Raliroad Companies reduce the rate on bensole in tank cars from Johnstown Plant to Silver Lake, 3.1 cents per out. or about \$21.00 per car. The effectiveness of this rate was prevented on account of complications that arose which prevented the above Lines from making the rate effective. However, I pursued the matter to a conclusion, and I am pleased to advise that effective Hay 15th the rate of 14.8 cents per cut. will be made effective, the present rate being 17.9 cents per cut. Would also advise that this rate will positively be effective on the above date.

I RETTER!

May 10th. 1916.

Dr. Hugo Schweitzer, 117 Hudson Street, New York City.

My dear Dr. Schweitzor:

I beg to thank you for your favor of the eighth instant and for so kindly remembering my desire for some indications in regard to appirin. I am much obliged for the pamphlats which you enclosed, and chall certainly give one of them to Mr. Edison withyour compliments. with kindest regards, I remain.

Yours vory truly,

Fall

EASTMAN KODAK COMPANY

(8665)

May 10,1916.

Dear Mr. Meadowcroft:

Hae your work on the Paranidophenol matter gotten along far enough so that you would be in position to give us a reply to our letter of the 4th? We would like very much to have this information as it would have considerable bearing on the plans we are working on at the present time.

Yours truly,

Mr. William H. Meadowcroft, Laboratory Thomas A. Edison, Orange, N.J.

May 11th. 1916.

Mr. Edison:

Referring to the attached letter, this bringe up the question upon which I want to consult you.

We have been making extensive use of the 250 pound galvanized iron cans. We have done this because iron or steel drums discolor the surface of the phenol lying next to ths drum, and when this is re-melted and poured out, it makes the whole contents vallow. We use the galvanized iron cans of 250 pounds entirely for both Government orders.

The Hayden Chemical Company's Plant is not altogather unreaeonable, but I think the trouble arises mostly from tha handling of the cans. The cans are not over strong, and as they contain 250 pounds, it is not a very difficult matter to start a leak with the ordinary handling to get the came on and off the trucks, and in the jolting of the cans given as the truck rune over more or less rough roads.

The Carbolic we used to receive from England was packed in tin or sheet iron cans encased in wood, which protected the metal.

If we are sometime or other called upon to make good on account of some bad leakages, it would not take long to run into a loss that would be more or less serious. It seeme to me that for the present we could afford to put all our 250 pound oans in a cheap wooden barrel with straight sides, similar to the England packages. The can costs us \$1.20 and we have figuree on wooden barrels at 40¢, making a total of \$160. The can holds 250 pounds, so this makes a total cost for the package .0064 . offmin Does this meet your approval?

W. H. MEADOWCROFT.

In Edwar said

[ATTACHMENT/ENCLOSURE]

American Oil & Supply Co.

Oils, Greases, Acids, Chemicals

52-54-56 Lafayette Street

Newark, N.J.

Eny 2nd, 1916.

Mr. W. H. Meadowcroft, c/o Thes. A. Edison, Inc., Orange, R. J.

Dear Sir:-

The following is a copy of letter received

yesterday from the Heyden Chemical Works:-

"We beg to advise that a large number of Carbolic Acid cons reach us in a leaking condition. On some of the cans the seams are not tight, and in othersthere are holes. This condition is objectionable in warm weather especially considering the low melting point of Edison's product. We fully understand that the manu-

facturers will contend that the cans were tight when the Carbolic Acid was poured into them, which undcubtedly is true, but they either should be handled more careful in transportation and storing or some kind of

protection out around them.

Perhaps you will desire to take

rernaps you will desire to take this matter up with Ur. Edison. The Corbolic Acid which we get from England is packed in wooden burrels as a pretection of the time.

When the weather gets hot in July and August, the Carbelic Acid will probably arrive at our factory in a semi-liquid state, and considerable lost might occur if the containers are not tight."

Mr Edwar :

Will you please let us have your reply

Please see promptly in connection with the above in order that we

Mici nicino, mny transmit it to our customer?

affached -

Yours very truly,

American Oil & Supply Co.,

CARBOLIC ACID DIVISION.

Silver Lake, H. J., May 11th, 1916.

Mr. A. C. Emory, Purchasing Dept.

RAW HATERIAL Your Memo #1469, dated April 29th,

Theoday, may 9th, I me conformed hold at the library in Grangs, on advised him that this Division ob by in. Immoort that ire, littlen had advised him that this Division would be able by produce oven more than 7,000 lbs. of 7. Phenol per day if now natural in sufficionic quantities could be supplied. Consequently, ir. Humbert thought it advisation to you do a stutement shallow to the constitute in my little additionate to you are for buying material equal to the limit of production which the buying material equal to the limit of production which the Division can turn out.

Several months ago I stated to ir. Edison that we could produce as made as 9,000 lbs. of F. Phenol per day. Emerciore, I beg to give you hereafter all the measurary figures for an output of:

(a) 8,000 lbs. of P. Phenol per day, or 240,000 lbs. per month, (b) 9,000 " n " " " " 270,000 " " ".

following figures are divided into three groups, i.o.,
Piret: By using 90% Solphuric Acid only.
Socond, By using partly 90% Solphuric Acid and partly Chamber Acid.
Solomed, By using partly 90% Solphuric Acid and partly Chamber Acid.
Solomed By using partly 90% Solphuric Acid and partly Mitrio Cabs.

First: By using 98% Sulphuric Acid only.

Bonzol	8000 lbs. per day. 1545 gals. or 11200 pounds	por month of 30 days 46368 gals. or	9000 lbs. per day 1738 gals. or 12600 lbs.		
Sulphurio Aoid 9	8% 48000 lbs.	1440000 lbs. 840000 "	54000 lbs.	1620000 1bd 945000 "	•
Soda Ash Omistic Soda	6000 "	180000 ⁴	6750 " 18000 "	202500 " 540000 "	

Mr. A. C. Emory, Purchasing Dopt. 5-11-16

Second: By using partly 98% Sulphuric Acid and partly Chamber Acid.

	9000 lbs. por day	240000 lbs. per month of 30 days	por day	270000 lbs. por month of 30 days
Benzol	1545 gale.	46358 gals. or	1738 gals.	52164 (mls.
_oı		336000 lbs.	or 12600 lbs.	or 378000 lbs.
Sulphuric Acid 98%	28000 lbs.	840000 "	31500 "	945000 "
Chambor Aoid	28000 "	840000 "	31500 "	945000 **
Limestone	28000 "	840000 "	31500 "	945000 #
Soda Ash	6000 "	180000 "	6750 "	202500 "
Osustic Soda	16000 #	480000 "	18000 "	540000 "

Third: By using partly 98% Sulphuric Acid and partly Hitric Colm.

	per day	per month of 30 days	9000 lbs. por day	270000 lbs. por month of 30 days
Benzol	1545 gals. 11200 1bs.	46368 gals. or 336000 lbs.	1738 gals. or 12600 lbs.	52164 gals. or
Sulphuric Acid 98%	28000 "	840000 "	31500 "	378000 lbs.
Hitric Calco	57000 **	1710000 "	64000 "	1920000 "
Limestone	28000 "	840000 "	31500 P	945000 **
Soda Ash	6000 "	180000 "	6750 **	202500 **
Countic Soda	16000 "	480000 "	18000 "	540000 "
Coustic Soda	16000 "	480000 "	18000 "	540000 "

If any further explanation is wanted I will be glad to furnish

it.

и. катантибри.

Oopies to Mossra. W. H. Meadowcroft, C. H. Wilcon, S. B. Mambert (2).

Meadocraft The wrong Mr. Edison:-

We have gone over the form the Dominion Company and have made only such changes ingit as ssem necessary to protect your interests. Clean copies of the redraft are submitted herewith, to to partitle the form submitted by the Dominion Company, the latter having the changes made indicated in red ink.

The paragraph in the middle of page 2 of the Dominion Company's draft relating to the penalty has been eliminated, as it does not appear to be favorable to you.

The provision that the contract may be extended for a further term of six months in the event that you are unable to furnish sufficient tank cars appears to be entirely at the option of the Seller, and you would not be entitled to call on the Seller for this extension as a matter of right.

Mi. Felison:

Jene out of the property of the party of th

HL-JS

Relum 1014th Calles Heldress Milani, N. W. MINISTER & CO. HAMED. (Mitsui Bussan Kaisha Lut.) TOKIO YOKOHAMA MIIKE DALNY MOUKOEN TIELING SEOUL MAMBURG YOKOSUKA KOBE KARATSU TAIPEH TIENTSIN CHEMULPO ANTOHKEN LYON KURE CHEFOO PETROGRAD DSAKA NAGASAKI KISHIMA CANTON OALLAS SAN FRANCISCO MOJI MAIZURU AMOY NEWCHWANG FOOCHOW MURORAN MANILA NUCHINOTZU DOMDAY MIYAKO HARRIN PERING SINGAPORE TSURUGA Thomas A. Edison, Inc., Orange, N. J. Attention of Mr. W.H. Meadoveroft. Gentlemen:-Regarding the shipment of Phenol from Silver Lake, we have a complaint from our people in Japan to the effect that some of the material is found insoluble in water and some are found not quite transparent when dissolved in water. Kindly let us know what we can say to

Yours wery truly,

Distated by Er. Nomura.

them.

CAMBRIA STEEL COMPANY

OFFICE OF THE VICE PRESIDENT & GENERAL MANAGER

DWIN E.SLICK

JOHNSTOWN PA. Hay 15, 1916.

Mr. Thomas A. Edison,

Orange, N. J.

Dear Sir:

Replying to your letter of April 27th, we will accept your offer of $1\frac{1}{4}$ conts per pound Royalty for Crude Raphthaline.

Yours truly,

Vice President & General Manager.

to become

DEPARTMENT OF COMMERCE BUREAU OF FOREIGN AND DOMESTIC COMMERCE

WASHINGTON

May 16, 1916

I can only gire you my own stoots I have erreded & Bengol abourby plants Errected 3 Edgenson in offer 1 for my Coursein accord

Mr. Thomas A. Edison, Orunge, Now Jersey.

for nife Amiliane, actumbide, porrepland My dear Sir:

There has been much eath of late with reference to the establishment of new industries in the United States can a result of the European unr. He doubt many such industried have gone into existence and many such industried have gone into existence and many others be a such a such as the control of the contro and definite facts on this subject. Such information can not be obtained

through the commercial and trade organizations and I am taking the liberty of addressing you.

I hope you will be able to supply some facts on the following questions which are submitted merely as a guide for your reply:

- (1) What industries have come into existence since the outbreak of the European war, either because importations of products which were formerly manufactured in Europe have ceased, or because other rations have recently been unable to supply themselves with certain products as in normal times?
- (2) What industries have been considerably enlarged owing to the same causes?
- (3) What articles or products formerly manufactured chiefly in Europe are now being manufactured in this country on a greatly increased ecale?
- (4) That American-made products are being used as substitutes for products which were of foreign origin and imported into this country?

I would particularly like to obtain as complete information as possible, including names of samufacturors, plans, size of plants, number of employees, value of products, prices and costs, as compared with the forsign-made article or products. If all these details are not available I shall be indobted to you if you will send what you have. If you wish any of the information held confidential, so mark it and I shall respect your wishes in the matter.

I am not so much interested in matters directly concerned with mumitions of war as I am in products which are used in normal times.

Should you have little or no information at hand, I would be greatly indebted to you if you would refer this letter to zone one who might have such information or drop me a line with the name and address.

Thanking you in advance for any material or suggestions, I am,

Chief of Euroau

Very truly yours,

eep-g

E.R. SQUIBB & SONS. NEWYORK

dear boliz

THEODORE WEICKER, PH.G., PH.C., VICE PRESIDENT

May 16, 1916.

Mr. William H. Meadowcroft, Assistant to Thomas A. Edison, Orange, H. J.

Dear Hr. Mesdowcroft:

I acknowledge receipt in due time of your favor of the 8th instant, and thank you for same. That part of your letter regarding the accounting matter will be taken up by our Controller.

As to the carbolio acid delivery, I am sorry to say that in the first place the quality of the acid has given us a great deal of trouble, and we have had complaints from all over the country. On the other hand, the market seems to have weakened so that we find that even at 90¢ we can not sell. Yesterday we had rejected an offer because the customer said he could buy at 79¢.

If you can suggest any improvements in these two directions, quality and price, we hope to hear from you. You can always depend upon our most earnest cooperation.

TW:S

Very Haly yours.

American Oil & Supply Co.

Oils, Greases, Acids, Chemicals

52-54-56 Lafayette Street

Newark.N.J.

Thos. A. Edison, Inc., Orange, N. J.

Mr. W. H. Meadowcroft.

We enclose herewith letter from Hadjopulos & Sperco, which is self-explanatory. Will you please take this up with Mr. Hoffmann when he calle in the morning, and advice the as work as possible what we should do in the matter?

Yours very truly, American Oil

[ATTACHMENT/ENCLOSURE]

D.B. HAOJOPOULOS, PRESIDENT C.R. SPERCU, VICE-PRESIDENT. CONSTANT J. SPERGO, TREASURER J. HAOJOPOULOS, SECRETARY

HADJOPOULOS & SPERCO, INC.

IMPORT AND EXPORT

GENERAL COMMISSION AGENTS

CABLE ADDRESS
"HADJOPULOS, NEW YORK
TELEPHONE
RECTOR 1832

29 Broadway New York CODES USED
"WIEGERS" BLITZ CODE, 1908 ED
A.B.C 5" EDITION
LIEBERS, J.K. ARMSBY COS

La. 14, No.12.

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Mago

May 18th. 1916.

Mr. C. w. Markus, surchasing agent, Rictman Koduk Company, Rochester, H. Y.

Doar Mr. Makus:

I trust you will not think that I am negligent because I have not unawared your favor of the loth instant/ Br. Edison has been busy on his old stant of working about twenty hours a day, and it has been a very difficult matter to get his attention. He is just finishing up a special line of investigation and is going to take up the matter of Para Amido Phenol, together with some other matters that will interest you, with a very few days.

I am hoping to have some interesting news for you within a short time.

Yours very truly,

Assistant to Mr. Edison.

BALES OFFICES
NEW YORK
BOSTON
CHICAGO
PHILADELPHIA
SAN FRANCISCO

SITICS CHENEA

MILLS
SOUTH MANCHESTER
CONNECTICUT

CHARGE BEACHTHURES

8695)

CHORNES MANAGEMENTS

Say Yreed May 18, 1916.

mfr Andin - Acolambedo, Andre Salt

Mr. Thomas A. Edison, Partolic Cearl, Notes accommended

Dear Sir: from to have out there fun dyen with Lohalt parolating character At a luncheon given by Mr. Austin C. Dunham yester-

At a luncheon given by Mr. Aus in C. Dunnan yesterday the writer and Mr. Dunham were talking over the domestic manufacture of Intermediates and finished-type. Mr. Dunham suggested that I write you and explain just what we wanted the first told Mr. Dunham that I would be wigny kind to avail myself of the opportunity.

On October 15, 1915, we wrote the Thomas A. Edison Laboratories in regard to Toluci Intermediates. My idea is to try and manufacture at our own plant certain high-class dyes, which are not liable to be made in the United States for some time. We would go at the problem on a small scale and the dyes would be for our own use only. We need certain Intermediates and do not care to start from Benzol, Toluci or Aniline Cil. We wish products further advanced than the above, such as the following intermediates:

Para-Amido-Dimethylaniline
Alpha Napthol
Benzaldehyde
Diethylaniline

Michlers Ketone

Melot Glycome Beginny minors of Every do so of sean gal the defended in guide K enough It there care assent from weather done up the list year want I could tree many help out, per aboutly help out, I want with many seasons are in the season we in the se

200 - 10 11 12 100

We have made some inquiries in regard to obtaining Phosgene but are unable to find any source of supply. We understand this gas is the one that is used by the Germans in their trench warfars. Possibly your Company may be manufacturing some of the Intermediates and we would be pleased to hear from you on the subject, as well as any suggestions you wish to give.

Very truly yours,

Cheney Brothers,
Per John J. Chury

ЈРС НВ

May 20th. 1916.

Cheney Brothers, South Manchestor, Conn.

Attention of Mr. John C. Cheney.

Dear Sir:

I have recovived your favor of the 18th instant, which has been read with much interest. Let me say that I am now meanufacturing the following: Antiline 311, Antiline 321, Antiline 321

If there are in my list any chemicals you want I could probably help you out.

Yours very truly.

Meadowalt

Note Bbl left own from Son From shepunt waill what to the or alrow Wester to ffering That

we better atopyeching (

naphthedine

Dean MW Mason Marchthalens at a distance On aprile 10th the con was officed to be transcribed and transcribed and appropriate some received a message from the reason croth as follows (Regarding can nophthaline shipped to Dan transisco anerican oil wanto specifications as to Purity, Welling point and Boiling point, When I paw the word Perity opaid 9 bet the american ail sold the naphtholene as Parified Maphtholene, and when it get to Japan we will get a hick. (The kick Lame of and Randell them a expected) We madel a tres for Boiling and Westing points and sent Them to MW Meadowardt, and 5 told MW Meadowerd - witaufised "trus mails on bat son map Rollie.

as for the naphthalene being yellow on

V

avival at some Francisco. O know it was white when it left trove, and from see appearance it was just like the naphtholener solipped to newards and itemforthe Hor o inspected over 1/2 of the barrelo loaded I was impeding the condition of the barrely & had the treads taken out of at least 10 bowels and put back in or put new Reads in for a vanted all bourses To leave in AI condition, a believe there must have been 20 barrels opened all to gether. Every barrel o Row opened, the Maphibalene was white. as for the large percentage of moisture. there wand no more moisture in this nophthalure them in other naphalalere offered from here and the large percentage of moisture must have got in after leaving here. There has not been over five was to profee ear ton be to the map with property bounded or while it was beening bounded, all of the off color and damp nophthalene us feet back

in the band, the naphthaline along the sides of the building is alway more or less faring this is alway put back in the fam. I can not undustioned why was one should go bad with the other cars were been good. I do not think those is any difficure in the soude nophilalener. Do you Mund the climatic conditions has and thing to do with Lurning the mapfithalene yallow? you remember a told you about more nelygon of the Witnated Chemical Go of Kingaton been Rus Looking over Woodward naphitaline a stowed Tum trow white the bublimed maphindens was, The said it rembers that time one care bell that gotten out by publining. I think the had a reason for paying what for her wanted to buy it a Reader The car bhipped april 2 Franch Hay 19th was all from goo cooler nophtrolers, the april 2912 much be in hunforte by the time. If you have time a wish your wolled

go and look at it your pelf a am ourse you will that the make states some he vol stand and boop to ding hore, I have another ear load on Rand a will Rample every 10th borrel and send sample to you. I feel sich about the cas of naphthalens being rejected for a have tried hard to some all good material for we all have enough to ouble without licher. We are still using reservoir water, have pump and engine in but they have not got it working yet. another thought just came to me about the naphthaless a showed Mr Melager. I took a bowel from a pule of barrels in the brick of Red and opened it and that bornel was from a pile that wend to Dan Francisco, and the northholene was white in the barrel. This was man 28 Gournhash Claud

den line

May 25th. 1916.

The Board of Health, Bloomfield, N. J.

Gentlement

I write to advise you that we have now turned into the sewer all the waste and refuse from my Aniline and Carbolio Flants at Silver Lake; also that I hope to absorb any escaping gases by means of absorbing tower, which I expect will be in operation next week.

Yours very truly,

Para a.P.

Zurich, le 25 Mai 1916. 47 rue du Righi

Monsieur Wm. H. Meadowcroft,

Orange.

Monsieur,

Par votre lettre du 25 avril vous me demandes une autre formule pour la préparation du paramidophenol que celle par la réduction du paramitrophenol avec du fer et de l'acide oblorhydrique pratiqué juaqu'à présent.

Je me fais un plaisir de vous adresser ci-joint des données sur la méthode électrolitique pratiquée à ce que je sais sur une grande échelle et donnant de bons résultats.

Ayant comme point de départ le nitrobenzol d'un côté et yant l'electricité à bon marché je ne doute pas que vous en seurez tirer partie.

Veuillez agréer, Monsieur, mes salutations empressées.

l annexe.

per D'W. Sheely Wolnech

1.

Elektrolytische Darstellung von Paraemidophenol aus Nitrobenzol.

Ausführung der Versuche.

Zur Reduction wurden zunächst die Nitrokörper event, unter Erwärmen je nach den Umständen in der 5-10 fachen Gowichtsmenge reiner conc. Schwefelsäure gelöst. Die orkaltete Lösung wurde in eine poröse Thonzelle, welche einen Durchmesser von 4-5 om. und eine Höhc von 8-9 cm. besass, eingefüllt, diese in eine circa 2 cm. woitores Beoherglas gestellt und der Raum zwischen beiden mit 75-100 % Schwefelsaure angefüllt. In die innere Zelle tauchte die Kathode ein, welche aus einom Platinblech 3 : 45 cm bestand, während die Anode, die von der gleichen Grösse war, sich in der ausseren Flüssigkeitsschicht befand. Der Stromm welcher einer Accumulatorenbatterie entnommen wurde, besass eine Spannung von 5-6 Volt und war zur Elektrolyse im Durchschnitt eine Stromstarke von 12-3 Ampère erforderlich. Die Dauer eines Versuches betrug je jach den Umständen 12-24 Stunden. Bei der Reaction tritt in den meisten Fällen eine lebhafte Erwärmung der Schwefelsaure, in einzelnen Fällen bis auf 80° Cels. ein, sedass ich bei meinen ersten Versuchen für Abkühlung der Zelle Sorge trug; in der letzten Zeit habe ich nicht mehr unter Kühlung gearbeitet und verlaufen die Processe unter diesen Umständen z. Th. schneller.

[ATTACHMENT/ENCLOSURE (WITH TRANSLATION)]

Parasmidophenol 2.

Was die Gewinnung des Reaktienspreduktes anlangt, so scheidet sich dasselbe in den meisten Fällen in Form eines schwefelsauren Salzes direct aus der Schwefelsaure ab und kamm man dasselbe durch Filtriren über Aspest und Abpressen auf Ten leicht ieoliren.

Darstellung ven Parasmidophenel.

Zur Elektrolyse wurde eine Lösung von 20 grm. Nitrebenzol in 150 grm. Schwefelsäure verwandt.

Bereits nach kurser Zeit fürbt sich die Flüssigkeit unter immer zunehmender Ermärmung blaugrun und nach 5-10
Stunden ist der Zelleninhalt zu einem dichten Krystallbrei ven
weissen Blättchen erstarrt, welche über Aspest abgesaugt und auf
Ten getrocknet werden. Die Ausbeute an Rehprodukt bellef sich auf
20-25 grm. Zur Reinigung kann man die Krystalle auf Wasser oder
zweckmässiger aus werdünntem Alkohol umkrystallieiren. Der Körper erwies sich in allen Eigenschaften als sohwefolsaures paraAmidophenol; durch deppelkohlensaures Natron konnte daraus die
freie Base abgeschieden werden, welche, wie angegeben, einen
Schmelspunkt von 186° Cels. besass.

[ATTACHMENT/ENCLOSURE (TRANSLATION)]

ELECTROLYTICAL PREPARATION OF PARA ALITO PHEMOL FROM HITROBEREOL

METHOD OF PROCEDURE.

For reduction, the nitrated substance is dissolved in 5 - 10 times twoight of pure concentrated Sulphurie .cid, with the aid of heat, if necessary, according to circumstances.

The cooled solution is poured into a persua cup herring of dismeter of 4 - 5 centimeters what a height of from 5 - 9 centimeters. The persua cup is then placed in a boulder lawing a diameter of about 2 centimeters more than the cup, and the space between is fille with 75 - 100% Sulphuric Acid.

In the inner cell is placed the cathode of platinum 5 centimers by a 1/2 centimeters, while the mode which was of the same size is placed in the outer cell.

The current is taken from a storage battery, the voltage being . 6 volts and a current domaity throughout the clostrolysis of 11/2 to 3 ampares being necessary. The time of clostrolysis takes, according to circumstances, 12 to 24 hours.

In the course of electrolysis there is caused repis heating of the fulphuris held. In some individual cames as high as 80% contigrade. In my first concernment we have a considered to confide the concernment of the confidered to confidered the confidered to the confidered to confidered the confidered confide

PREPARATION OF TARA AMIDO PHENOL.

For Electrolysis there was taken a solution of 20 grammon of Mitro-Bonzol in 150 grammon of Malphuric acid.

The fluid gradually becoming warmer after a short time is colored bluich green, and after 5 - 10 hours it has thickened to a crystalline mass of white crystall, which are filtered on an assector filter and dried on procus plates.

The yield of crude product in 20 - 28 gressmes. To purify this crude product can be crysticalized from unter but better from elected. This product reappoint to all totte of pera Amide Phonol culphato. Heattralizing with sections becomended the free base can be obtained, which has a melting point of 186° centigreds.

[ATTACHMENT/ENCLOSURE (TRANSLATION)]

PARA AMIDO PHENOL

Production of Para Amido Phenol by the electrolytical reduction of Mitrobancol according to R. Dernatedter D.R.P. 154086 is hereby shown that an electrolyte is used consisting of Sulphuric Acid so diluted that Mitrobancol is not dissolved but suspended therein. In the cathode chamber of the electrolytic cell there is placed 1000 oc. 50% Sulphuric Acid and 250 grams Mitrobancol while the anode compartment is filled with, at the most, 40% Sulphuric Acid, which is diluted during the electrolysis as it has a tendency to concentrate. Carbon is used as a cathods. Lead plates is used as anode.

With rapid stirring a current of 6 amperes is passed until 200 ampere hours have been used up. At this stage 200 grams of the Mitrobensol have been converted while 50 grams remains unaltered.

The solution from the cathods compartment is allowed to cool, the unaltered Ntrobensol separated from the rest of the contents by socoping off from the top. The separated crystalline Para Amido Phenol sulphate is filtered off and the strength of the filtrate brought up to 50% with Sulphuric Acid ready for another electrolysis.

This method is applicable for the reduction of other nitro hydrocarbons and some of the nitro bodies of the arcmatic series. Example, Para Amide Cresol can be obtained from Ortho nitro tolucl., etc.

Jack

Pennsylvania Tank Line

THIRD HATL BANK BLDG ST LOUIS MO

REPORTING MARKS "P.T.X."

SHARON, PA.

May 25. 1916.

Thomas A. Edison

Orange, New Jersey.

Gentlemen: We are in receipt of your letter of May 24th making inquiry conder ing leasing of two additional cars for the transportation of Bensol.

At the present time we do not have available any 10,000 gallon cars; At the present time we can now have available any lo, our gailon care; but would have ourse of this, appently during the month of July, if over are not required until that time. The are in a position to forward to you immediately two new \$2.00 gailon oner; at a rental of \$0.00 to per month, each of the present lesses. However, we would be pleased to place they not consider the period of there years at a rental of \$0.00 per month, per car.

We equip oars with steam coils and have a number of such cars in the Benzol service at the present time, but understand that steam coils are only required in Benzol cars during the winter months. If you are in immediate need of oars we can forward two cars at once without steam coils, substituting oars equipped with steum coils later in the summer, if this would be satisfactory to you. We note your oars are earning about \$10.00, each, per mouth milesge. This greatly reduces the amount of rental.

Thanking you for your inquiry and trusting that we might be favored with your order which will be given immediate attention, we remain

Yours very truly.

ели/и

B Edward we have two - Hypro Carbon to beller have at new first Hypro Carbon to beller dawn at new first pressoners of commence gul, I newsonward!

May 26th. 1916.

Mr. Luther Kountze, 141 Broadway, New York City.

My dear Mr. Kountze:

I enclose herewith a lotter from the H. Koppers Company, Pittsburgh, Pe., under date of the 24th instant, in which they wek for data in regard to the barrel of coal which was sent to them a little over a year wgo. This was the sample barrel you sent up to me from your coal deposit, and on which they were to make report us to the possibilities of utiliting the same through a by-product plant.

If you care to have the data furnished to them, I shall be glad to forward their data sheet, or you can communicate with the Koppers Company direct, if you desire.

Yours very truly.



The Untwiler

Birmingham, Ala.

bear Mr Edway! We wen all rady
to put gas in system and Hart
absorbing yesterday but the
long lums of gas proper which
the wood west proph an furnishing
did not come night and they
had to put up some spread committee
had to put up some spread committee
Which has delayed them— what
Do you though of that— two more than
to get about 300 ft 30" gas pipe!
We how been running out through
we how been running out gas coolers
the system Testing out gas coolers



The Untwiler Sirmingham, Ala.

water is what worms me mon
there any thing Else Thing had
a l' main From the mines and
Said thing could fund any pursue
from mine pursue pos. When we
began to last it out you today
to day we find that as form
as we began to draw on to we
counted get mough pursuen
to compto top of gas cooles.
and we only get about had to what
we herd - after putting it
up to thing thing are now putting
in a broster pursue p. believe



The Tutmiler Birmingham, Ala.

this will make it about right except Temperature. They lot of me hum water ran 66°668° all year round - on letting wales with home bring getting find it sums 72' - believe the boost his wall be better when we get in boost his and get double greatity. I emder stong there is planty of water to be betained by bulling to pumping, I way bulling to pumping, I way that tothe up water great him when he returns with Banister when he returns

CARROLIS ACID DIVISION.

Silver Lake, N. J., May 26th, 1916.

Mr. W. H. Meadoweroft.

Subject: MITSUI & COMPANY

In the letter from Mitsui & Co. dated May 15th, there is nothing said about a special chipment or a special drum, the contents of which did not, according to their meaning, once up to the normal standard. The letter from Mitsui & Company speaking about our Phenol in a general way only I have to explain in the same general way how are proceeding:

The Phenol for Mitsui & Co. ie manifactured in the same way as all our other shipments, which undergo, as for instance those to the U. S. Mayy, a very close test by an official of the U. S. Navy.

In regard to solubility, the specification of the U. S. Navy is as follows: "Place one gram of Phemol in a beaker with 20 C.C. of water, and heat to 80 to 100 degrees Fahr. with constant stirring. The Phemol should be completely soluble.

In repard to orystallizing point, the specification of the U. S. Mary demands that the Phenol ought to solidify above 38 degrees Centigrade.

When Mitsui & Company's letter arrived we had just started to prepare a new shipment for them, and have now taken an extra sample of each batch, as mentioned hereafter:

Still No.	Batch No.	Drum No.	Solidifying Point.
5	348	481	39 .4
5	350	482	40.6
5	357	483	40.2
5	358	484	40.6
5	361	485	40.4
5	365	486	40.6
5	369	487	40.2
1 and 7	110	488 to 493	40.5.

We have tested to-day the solubility of all of these samples, and find them answering the specifications of the U. S. Navy.

In order to be positively sure that our shipments to littent a Co. in the inture are up to their standard, I would assign that in a similar way. Ike it is done by the U.S. Navy, a test by a representative from Hissmi might be made only nature where Hissmi might be made only after we have Hitsmi & Company's written agreement that the Phmol is C.W. I keep the above mentioned samples ready, either to have then tested here in Silver Lake by Hitsmi & Co., or to send them to seese except if they want us to do so.

м. клиперибри

CAMBRIA STEEL COMPANY

JOHNSTOWN PA. Lay 27, 1916

Pr. Thorns A. Edicon,

Orange, E. J.,

Door Sir:

We have been notified by the Fenneylvenia State Bureau of Health to discontinue wasting of anterials from By-Products Plants into the river.

i understand there is considerable, oil, acid and objectionable waste from your Benzel plant going into the river, which will have to be stopped. I will be pleased to have you issue necessary instructions to have the practice completely eliminated.

Yours truly

June 2nd. 1916.

Mr. Edwin E. Slick, Vice President, Cambria Steel Commany, Johnstown, Pa.

Dear Mr. Slick:

Mr. Edison has referred your letter of May 27th to me. I wired Mr. Bacon to see you in regard to making some arrangements, if possible, to have Cambria recover the acid from our acid washings.

I hope ho will be able to make some satisfactory arrangements with you. Yours very truly,

E. S. Sheet C. Sheet & Dilius lour pour his Edwar has referred your little 1) May 77 to we - I wered Jun Boun to Strym in ugand a Making Some analiquetts of possible to how com tun news thraveil from our acid warhings I hope he will have to be able. to maile Some Sates factory anaugunite onthe yours day Truly

May 29th, 1916.

Pennsylvania Tank Line, Sharon, Pa.

Gontlemen:

Y us devor of the 35th instant has been received, and I thank you for your prompt attention to my inquiry.

I will accept your offer of two new 8,350 gallon tank ours at a rental of 350.00 per gouth each for one year lease, commencing June 1st, 1916. Will you place, therefore, seni lease, and I will sign the same.

I note your remarks in regard to steam coils and it will be agree; ble to me to have you substitute later on ours equipped with steam coils, when we got measure the winter months.

I will ask y u to ship the two cars above named about June 1st, and will have my Traffic Department send you shipping instructions therefor.

Yours very truly,

Stanley Boggett

Colors, Chemicals, Gils and Aineral Broducts

DOGGETT, NEW YORK A. B. C. PIPTH EDITION 99 JOHN AND 11-18 CLIFF STREETS

SPECIAL CORPUSPONDENTS IN ALL PRINCIPAL DOMESTIC AND FOREIGN MARKETS

NEW YORK 5/29/16

Thomas A. Edison, Incorp., Orange, l.J.

attention of Mr. Headoweroft. Esteemed .Friend: -

Kinaly note, I have in Atlanta, Go. at the present time on freight cars as received, 40% gaivenized to gaive stra heavy iron drums suitable for exporting or handling sixty-six degree Sulphuria Acid or like materials.

of sixty-six degree saginarie asset in the district of sixty-six degree Sulphuric Asid purchased from an Asid laminaturer there, who rotused to make delivery of a six degree of the six degree of the six delivery of drums, which while the six delivery of considering the six delivery of drums, which while the was due to a breakdown of the first our while enrors to delivery of the six d

to their contract on this slight technicality, alegady account of seeing a profit of twenty or twenty flow depending on the slight technicality alegady per ton the seling their fact elsewhere, my combract models having been 655.00 per ton while the parket price of their reluced to make contract with magnetographs of they recluded to make contract with magnetographs of their confidence, rate 655.00 per ton 1.01. Allanta.

I have instituted suit for damages against the Acid Company, in the meantime, have been trying to dispose of the drums without a lors but find it is impossible. therefore, thought probably you might be interested in purchase of these drams at a loss which I am willing to make on same and which will be charged in my damage suit against the Acid Company.

These drums cost me \$8.50 each f.o.b. Baltimore, Md. with freight to Atlanta of 50g//100 and accrued demurrage charges, which makes the aggregate cost as I figure it today about \$10.00 cach. Mevertheless, I am ready to take

Stanley Boggett

Colors, Chemicals, Gils and Mineral Products

A. D. C. FIFTH EDITION TRIAPHONES— 3591 AND 3592 JOHN

SPECIAL CORRESPONDENTS IN ALL PRINCIPAL DOMESTIC AND PORITION MARKETS

99 JOHN AND 11-18 CLIFF STREETS NEW YORK

-2-

a substantial loss on these drums and charge same to the Acid Co. in $my\ suit\ against\ them.$

Can you use these drums? If so, will be glad to learn the best price you can offer me for some either f.o.b. Atlanto, Go. or delivored Sliver Lake, of you can help me out in this matter and of the cattine serve your own interests, will apposite it very much.

Yours very respectfully,

SD/HS

No anxiety Berge Berge Note (Brief Rosley, Ala. May 29th, 1916.

Mr. Thomas A. Edison,

Orange, N. J.

Dear Sir:

Being employed at the Benzol Plant for the Tennessee Coal Iron & Rail Boad Company, Pairfield, Ala., which is of the German type and am in position to furnish you any kind of information or blue prints that would tend to make improvements on your plant for a reasonable amount.

Trusting this will be strictly confidential even if my offer is not accepted, and hoping to hear from you at an early date, I beg to remain

Yours respectfully,

P.S. Our production from one finishing still for 48 hours is 1200 gallons C. P. Benzol.

Post Office Box 624,

Ensley, Ala.

Whew!

DEPARTMENT

____NEW YORK,

May 29,916

CONFIRMATION OF CABLEGRAMS

EFFIX	In consequence of
FODAC	new
ITKUF	invention
KARCA	manufacturing
PHONOGRAPH	Phonograph
ORWIL	records
VARME	with
JANPA	much less
OKSIL	quantity
PHENOL	Phenol
EDISON	Edison
EKIJY	propose to contract
OBBON	ata reasonable price
MINNO	1500
NUZEP	pounds
EPHUJ	daily
VEZAB	half year
UHAPE	telegraph if you can
AWLUN	avail

Sent to_____Kitetsu___Tokyo

May 32 at, 1894.

Mr. Edison:

(Re. - Shipments of Sodium Sulphito to

In accordance with Mr. Mondewrott's instructions, I endewvord to obtain information through our Gustoms Brokers as to the mames of the consignors and consignees of 60,000 lbs. of Sedium Sulghite shigged to Uruguay and 30,000 lbs. shigged to Guba.

Our Gustome Brokers, Hearre. Hebrugge and Day, have found it very difficult to obtain any dofinite information recrding these shigenes, as they day is that the government officials refuse to give any detailed information. Our Gustoms Brokers state, however, that the Gresselli Chemical Company, No.80 Haiden Lane, N.Y.City, and the General Chemical Company, No.25 Proad Street, N.Y.City, have recently made shipments or Sodium Sulphite to the countries mentioned above.

I endeavored to got further information through our shipping Brokere, but was uneuccessful.

WATER PROPERTOR

The Heyden Chemical Works.

FACTORY AT GARPIELD, N. J.

CHICAGO OFFICE 180 NORTH MARKET ST. 135 WILLIAM STREET.

NEW YORK, May 31, 1916.

Messrs. Thomas A. Edison, Inc.,

Silver Lake, N. J.

8929)

Gentlemen:-

The Carbolic Acid which you have been furnishing us in the past does not keep in crystal form at the present temperature and the cans are so poorly made that every one of them leaks.

We request you to kindly take steps to safeguard us against loss of this kind. First by supplying a Carbolic Acid in crystal form and not in liquid form, and second by putting it in cans which will not look if the soid becomes liquid in high temperature.

According to report from our factory our loss through leaking of liquid Carbolic Acid out of the cams is very considerable. We have called your attention totals fact once. or twice before and must earnestly request that you take steps to overcome this trouble.

Yours very truly,

GS/F.

THE HEYDEN CHEMICAL WORKS.

m. madouereft: f. bonn V. Fros.

We have arranged to frewent any case of
this land by the fature. I hill point
to you how Hoydle handles the cases

PHONE, MAIN 2673

EDWIN G. SCHUTZ, LIMITED FUR DRESSERS AND DYERS

12-14 ST. ELOI STREET.

MONTREAL, May 31st.,

Laboratory of

Thomas A. Edison,

Orange, N. J.

Gentlemen:-

Replying to your esteemed favor re Ursol D, we would kindly ask you to favor us with price on this article as well as sample.

Also notify us if you are putting out an article similar to the Ursol P, which is a fur brown.

Your prompt attention will greatly oblige

CHAPALF - BROOKLYN.
CODES
WESTERH UNION
LIEBERS
A.S.C.

DRESSING AND DYEING EPARTMENT SOCIÉTÉ ANONYME DES ANGIENS ÉTABLISSEMENTS

DRESSERS AND DYERS OF FUR SKINS AND CUTTERS OF HATTERS' FURS

4338 WILLIAMSBURG
FACTORIES
BROOKLYN HEWYORK
HONTREUIL SOUBSAIM)
FISMES I HARNEL
CROCO (CREUSE)

BROOKLYN, N.Y. May 31st 1916

Mr. Thomas A. Edison,

Orange, N. J

Day we manufactured

pear Sir:

We are in receipt of your favor and referring to your product we beg to say we have used same and have shipped some to our Paris house and found the article to be very good, but for the present we are well supplied.

We would appreciate it if you will let us know if you are making any fancy Aniline Color and also Aniline Salt for future delivery.

Yours very truly,

m i r -

8926

Edison General File Series 1916. Chemicals (E-16-16) June OFFICES: 45 Park Place NEW YORK MERCK @ CO.

MANUFACTURING CHEMISTS

NEW YORK.

June 3/16

Chamicals

ST. LOUIS MONTREAL

Main Works

RAHWAY, N. J.

Laboratory of Thomas A. Edison

Orange Neces

Gentlemen: -

In further reference to your communication of May 16th and to the samples of Sodium Sulphite and Sodium Austream 18th and the Sodium Sulphite and the Sodium Sulphite Individual discoluration to the sample of Sodium Sulphite Anhydroup discolured and the Sodium Sulphite Hydroue to be very much smaller crystals than our present supplies and also not yielding a clear colution in water.

NEW CE

The eample of Sodium Acetate/was considerably discolored and therefore supplies of either of the items would not be suitable for our use.

We, neverthelees, appreciate your kindness in submitting the samples for examination and regret that we have not the pleasure of passing you an order.

With assurances of esteem, we are,

Youre very truly,

Attested: 0

MERCK & CO.

Cout faot with Henckes any more - Cut them out

7476

June 5th. 1916.

Mr. Dowling:

lonedication, and we have had a number of answers to our letters. Lill you ploses cond two cames samples to the following people. You will notice that these are to be two cames camples to the output conditions that there are to be two cames camples to too course camples and the conditions of the con

F. Schmaufor, 59 Helarrick Stroot, Scrott, Chunda.
John Flyrod Robo and Yanding Oo., 20th and creat lone ve. Edhwalkoe, tie.
Harming & Larroque, 30, 40, 20th and creat lone ve. Edhwalkoe, tie.
Harming & Larroque, 30, 40 Hethrat Stroet, Yarotto, Canada.
No Bhierfield hobe & Landar Co., Blissfield, Mich.
The Carbing & Algor to Hall dallo, Hich.
Detroit we brossing & Byeing Co. 80 Boodbridge St. Lett. Detroit, Elch.
Hethond Fur & Samming Co., 1981 So. 18th Stroet, Smala, Hob.
Loston Par Brossing and Joshig Cothe, 260 Strott, Jaroul, Sinn.
Horth Liter Fur Brossing and Joshig Cothe, 189 Front Stroet, J. Call, Sinn.

thip to each of the following a one pound packages so please and bill to thom at 4.00 or pound. This thought to set, 9.00 or pound. This is not to set. . . 9. Br. Edison said he would take his chemes on their paying for it.

M. Bromberg & Son Co., 1406 H. Related Street, Chicago, Ill. Er. Frank Eartin, 486 Prospect Evome, Eilwenkoo, Lic.

U. H. BEADOUCKOFT.

June 5t ... 1916.

Er. Stanloy Doggett, 99 John Etreot, Now York City.

Door ir. Doggott:

I received your favores the 19th ultime in regard to 494 galvanized iron drums which you now have at atlanta, Ca. to are prott well fixed for drums just now, and have additional chipments on the way, which were ordered some months ago.

However, I showed your letter to ir. Edicon, thinking that he might be inclined to take a chase on extering come additional starf, but he cannot see his tay clear to buying any zero drums just now, as we shall have an ample cupply for our needs for some time to come.

He wishes no to thank you for giving him the opportunity to acquire som of those drame.

Yours very truly,

Assistant to Mr. Edison:

Juno 5th. 1916.

t. & E. Chapal Proves & Co., 413 Willoughby Avonue, Brooklyn, H. Y.

attention of Er. Lm. a. Lutz.

Gentlemen:

Your favor of the flat ultime has been received, end I am flad to learn of jour good epinion of the Paraphenylenedicmine produced at my factory.

hoplying to your inquiry, lot me may that I am not making any fency iniline colors, but I am making iniline Silt on order for two or three of my customers. If you would like to be included among my customers for this chemical, I should be glad to hear from you as to what quantity you would use, say per wook or per month. Le can make fairly guick delivery.

Yours very truly,

June 5th. 1916.

Edwin G. Schutz, Limited, 12 St. Elci Street, Hontreal, Canada.

Gentlemen:

and I take pleasure in enemisky one, this mail a sample of servebentylenediemen. Before you try which, lot o call your attention to the feet that this is a banc, and, therefore, of full strength. Ured, by we a hydrochloride of this bace, and, therefore, not see there. You capit to got the same calls urith about two-thirds of our Persphenylonedicaine as you not risk ing other material.

39 urice for sect lets of Paraphonylonedicaine is 3.00 per pound. If you wish to contract for your requirements until the end of December, 1916. I can unit, you a contract price of 3.76 per pound. I allow 14 for each.

I expect in the near future to be in the market with an article which is also a base of breel i, for a fur brown. I am not in posttion, however, to speak of this definitely for a week or two.

Kindly address your reply for attention of hir. Mondoweroft.

Yours very truly.

Cambria

June 5th. 1916.

Air. Goorge Otis Smith, Director,
Department of the Interior,
United States Geological Survey,
Washington, D. C.

- 100

Dear Sir:

Referring to our previous correspondence in regard to the quantity of Bensel and other light eils obtained
from Mr. Edison's Bensel Flant at Johnston, Fa., we are now
about ready to report to you, but Mr. Edison wishes me to
ask you wh t you mean by value at the works. Do you mean the
cost of production, including everhead expenses? If so,
should the cost include any royalty which might be paid by Mr.
Mison.

For your information. I would say that ir. Edison also has a Benrol Plant at the Corks of the loadward Iron Company, Toodward, Ala. Do you also wish to have similar information in regard to this plant. If so, will you plants using a coparate eard for the same.

Yours very truly,

Assistant to Mr. Edison.

Buchoac

The Heyden Chemical Works.

FACTORY AT GAMPIELD, N. J. THANK CON MARK

135 WILLIAM STREET,

GABLE ADDRESS
HEYDEN, NEW YORK.

CHICAGO OFFICE O NORTH MARKET ST.

BIEN POWE

June 6, 1916.

Messrs. Thomas A. Edison, Inc., Orange, New Jersey.

Gentlemen: -

Referring to our complaint of May 51st about
Carbolic Acid erriving at our factory in liquid attte and with
the cans leaking, we beg to a dvise you that the shipment which
we received resterdy leaked very badly when it arrived. We
consequently weighed every can and found a shortage of 45 lbs.,
divided up as per enclosed list.

Kindly advise us in what manner you propose to adjust this difference, and what you expect to do in order to avoid similar losses.

Our Factory Superintendent, with whom we have taken up this matter, advises that the Carbolic Acid which we get from you is not completely crystallized and that the case, while they seem satisfactory for a solid product, do not hold Carbolic Acid in liquid state. He furtherwore calls attention to the extreme danger for the people who have to handle this product in liquid or semi-liquid state.

Under the circumstances we again urgently request that you hold your Carbolic Acid until it is completely crystallized and

June 6, 1916.

do not ship any that is in liquid state.

We also request you to kindly insist that the truck operators who take the Carbolic Acid from your works cover the druns up so as to protect them against the offset of the sun, as this may melt the Carbolic Acid, in view of the low melting point of your product.

Trusting that you will give this matter your careful attention, we remain,

Yours very truly,

GS/F.

Encl.

THE HEYDEN CHEMICAL WORKS.

4 - Aries V. Pres't.

[ATTACHMENT/ENCLOSURE]

June 7th, 1916.

Mr. Edison:

After making some inquiries I have gotten down to the root of the trouble. We get our galvanized iron cans from the American Can Company. It seems that they are trying to turn out a package made entirely by machinery, and we have been getting some of them. It transpires, therefore, that these machine made cans are not as perfect as the old steel cans which were made by hand.

We have had their manager over to the place, and he says that he will immediately begin to deliver the old style hand made packages and continue same until they have experimented further with their new machinery.

I suppose we will have to allow the Heyden Chemical Company's olaim of 45 pounds.

Would it not be well for me to write the Heyden Chemical Company for a statement which I have detailed above?

yes, + allow the claim

Chamiral

HICOUTHS HIAZARID

DYESTHEES - CHEMICALS

92 WILLIAM STREET

NEW YORK

ANILAZA A B C. Code 5" Edition

ih. Coadoworoct.

c/o Er. Thos. A. Edicon,

Orange, H. J.

My dear Mr. Meadowcroft;

With reference to our telephone conversation, I thank you very much for the steps taken by you in regards to our customors .

m Edwar last good me the car or the sie out a two po

Then I had the pleasure of seeing you a few days ago you told no you would give me a list of the chesicals you imported regularily from abroad and I shall be pleased to get same in order to have a change of quoting you and it is possible that we might be able to settle some business in these imports.

Thanking you for past favors, I am

Ulunta/ard

June 7th. 1916.

Door ir. Dowling:

I have been trying to strike up some trade on Sulphite of Sode, and have get two inquiries from Sweden. They are from the following parties:

> Porcy Lundwall & Company, Vastra Hamng, 5, Gothonburg, Swodon.

Aktiobolugot Axol Christicrasson, Post Box 232, Stockholm, Evorigo, Svoden.

I have written to them stating that we were conding to them camples of Sulphite of Soda, Hydrous and Anhydrous, by express propaid. Will you ploase show this momerandum to inc. Easen and ask him to provide you will liberal samples of good material in each case, and then have then safely peaked and chipsed by express propaid to the parties show manage.

Stanley Doggett

Colors, Chemicals, Gils and Mineral Products

DO JOHN AND 11-18 CLIP STREETS

REW YORK A LAND 11-18 CLIP STREETS

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REW YORK AND 11-18 CLIP STREET

Martin in lift the lateraction to a Medical Parameter Activated the service of th

I fool quite perfect you as not tish to best under some conject, est in view of the fasts store voluted atthewe your any pleas to on good a matter story proposed on patie.

Chanking you is advance for soneideration estended to se in this direction, I am

SD/ES

9045

Your your reason tails.

[ATTACHMENT/ENCLOSURE

Mento croft,

How much his he contracted to take or which does it Experie I am afraid he is preparing to lay deur

M' Edison

I can ones apaid of it. He Contracted for a doom a city for all this year, at 50 cents. I will desile land according to Meastown for from seen this

A MODERNAL PROPERTY OF THE PRO

Scotland Sich. I.C. June 7th 1916.

W. Mm. H. Meadoworost, Day that he is

Mr. T. A. Edison, Orango, N. J. afulully mutaken
Daar Mr. Meadoworost.

no body has ever gat.

Your favor of the 5th distinct disappointment to me. olining market, that is, if the market has time of delivery we must meet this lower price, however, if the market advances we then must delivery at the price at which the sale was made. Now see the class of goods we manufacture varies in price from 60¢ to about 75¢ per dozen according to the price of raw material plue the demand. Right now the market is 75¢ but not strong, although it is impossible to figure one penny of profit at the present market price of various commodities. While there are not more than fifteen mills of any size naking this class of cheap merchandise, competation is very keen, and it is fearfully hard to do better than make a fair living. Now several of our most formidable competitors have got Oil at 15% prominent among whom are the Parker Hosiery Mill & Dye Works, Portsmouth, Va., Loudon Hosiery Mills, Loudon, Tenn., Delaware Hosiery Co., Wilmington, Del., and many others, while what few left out of the fifteen cent oil, are all taken care of at 40¢ except

About a year ago one lavage Conseru standed to Take Contracts for 3 years, 35 cents for 1st year Occurs to searn year Asser whey would should it go lowed in They would follow elewan to 15 cents, that before they mede many Contract the price of all their newtonials at valued the price of all their strains them. so fast they well dress from the mediket. Latery they have stanted up again but compel Everybody buy for 3 years from pt 40 celutes for 1917 25 cents for 1918 + 15 del to fallow down after that teme gos that to maked withe market who consected in

a string de stri





. Scalland Veil: 1. C. June 7th 1916.

Mr. W. H. Meadoworoft, #2.

Runnymede Mills and ourselves. We of course had no hope of getting in with the fifteen cent class but we did hope that we would not have to be left alone paying a higher price than any of our competitors. Of course we know that there is not as much profit in 40¢ 0il as there is in 60¢ Oil, but we did feel that there was a sufficient profit to justify Mr. Edison in putting us on the same basis that the General Chemical Co. have done their oustomers. If it interfered with his plans, as I explained to you when there recently, he could bill the Oil at 60¢, and at intervals of every three months or even at the end of six months he could refund twenty cents, and if he wished this arrangement kept absolutely inviolate, we would guarantee, to do so under a forfeiture of the rebate. If the class of goods we were making showed any profit we would not pureue the subject any further, but it is going to be a desperate matter to break even under present conditions, and if you can help us it will certainly be greatly appreciated.

Awaiting the pleasure of your reply, I am,

Yours very truly,

June 8th. 1916.

Mr. C. ... Harkus, Purchasing Agent, Instman Rodak Company, Rochostor, H. Y.

Doar Mr. Merkus:

I suppose you have been expecting to hear further from us in regard to the matter of Fara Andle Fhencil. The only research for the delay has been that if Fara Andle Fhencil to entry countries that the contribution of the factor has been unable to five his forecomal attention to the case. He has not gone into the contribution of the case of the contribution of the contribution of the matter than the manufacture of the same dependent of the plant are being laid out, and come of the attention of the plant are being laid out, and come of the attention to the contribution of the same attention of the plant are being laid out, and come of the attention to the contribution of the same at the contribution of the same attention of the contribution of the same attention of the contribution of the contribu

In the meantine, ir. Edison wants to make ourse of makeing a quality that will be acceptable for photographic purposes, and he has saked no to write to you and ank if you will good no surject of one or two cunces. He would rather got it from you, as he considers that you are headquarters and that you would be selected to this have the right kind of material.

awaiting the favor of your reply, I remain,

Yours very truly,

Assistant to Mr. Edison.

Memo

Juno 8th. 1916.

Mr. Dowling:

Herewith you will please find original letter I have written to the iterburgh Graches stool company. [111 you cleaned issue a require to the curcheding operations to confirm this letter by a regular surcheding order.

Please forward your requisition to the Eurohesing Department, attaching thereto my original letter, which will be communicably the surchasing Department to the Sittleburgh Grached Model some with their purchasing order.

This letter is written in accordance with Er. Editon's instructions, and we are raise to try the gulverized iron as an experiment. Er. Editon has already emplained it to Er. Christonson.

for convenience and to make our files colf-explanatory. I enclose herewith earbon copy of this monorandum, thickness can also attach to my letter, together with your requisition. This will exclain matters to the Purchasing Department.

. . H. MEADOLCROFT.

CARBOLIC ACID DIVISION.

Silver Lake, N. J., June 8th, 1916.

Mr. W. H. Meadoworoft.

Subject: P. PHENOL FOR THE U. S. MAVY

i can sorry that two batched intended for the Navy were rejected by Lieut. Comfr. Kimborly, owing to a solidiying point lower than 50°C. According to your instructions, I have been in comminication over the 'phone with ir. Kimborly, and am phw preparing two other batches to be submitted to his repeated test.

Liumborly was testing the Thomolo on avecedingly wet and humid day; in fact, I believe the humidity was also the high as it possibly can be. Under such circumstances the time with it twee to drill a sample our them are days tellined liberal is fully the colding and it is a sample our the hard caystallized liberal is fully the colding in a sample our the hard caystallized liberal is fully the colding in the colding colding and the colding is sample our first kimberly, when conducting the last test, showed to me how, in about one-night minute's time, small crystale of Phenol of about one-nighth hand disaster placed upon a inife could be seen partly to disaster in the open are. The colding is the colding in the colding in the colding in the colding in the colding is the colding in the colding one small caystal from becoming moist in damy wather, order for a very should rive proposed, will diffuse colding in point was accepted.

There talled the situation over with ir. Kimborly on the 'phone, telling his, that I as afraid, we will need with similar difficulty again in case the tost is ands muchbor time on definition of the control of the con

The rejected Phonol is, of course, absolutsly 0-K for all other purposes, and I have it transferred to our stock for spot sales.

The new batches for the Mavy will be ready some time to-morrow, (Friday, the 9th), and as soon as our own tost has been made I will send a letter by messenger to Mr. Kimberly informing him that the Phenol is ready for his inspection.

M. KALMERHOS

CARBOLIC ACID DIVISION.

Cattagail

June 9th, 1916.

Dr. W. H. Meadowcroft:

PHENOL FOR THE U. S. NAVY Subject:

The temporary interruption of our distilling plant unfortunately prevents me from getting the full shipment for the U. S. Navy ready to-day, the last batch intended for the Havy just being in course of completion when the fire, which I report separately, broke out.

I do not think that the interruption of our distilling department will last more than a couple of days; in fact, I hope to start up again Monday, or at the latest, Tuesday.

I would ask you to kindly let me know if such an accident, being a clear case of force majour, does not stop for the tims that we are hindered to manufacture, the penalty to be paid the U. S. Navy for the delay.

Please let me know also if I had not better at any rate send Lieut. Comdr. Kimberly a letter informing him of the situation,

Juno 9th. 1916.

Mr. Louis Lanard, 92 Milliom Etroot, New York City.

My dear Mr. Lazard:

I received your layer of the eight instant in regard to the apportation of chemicals from abroad. I observed it to ix. Edison. No is very busy just now and occreely has time to make up any list, but he tiches me to tell you that Sodium Hitrite will coon be wanted by us. It is now imported by Comant & Company, and they charge 124 per pound.

I shall be glad to hear from you in due time as to whother you can do anything on this line.

Yours vory truly,

Assistant to Mr. Edison.

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

WASHINGTON

File more

June 9, 1916

Mr. Wm. H. Meadoweroft,
Assistant to Mr. Thomas A. Edison,
Orange, New Jorsey.

Doar Mr. Meadowcroft:

OFFICE OF THE DIRECTOR

In reply to your letter of June 5, 1916:

The decimed value at the works, of the bensel or other light clis obtained from the Edison plants, is the <u>selling</u> value, or, if the products were not actually sold, the closest approximation of such value had these products been marketed. This would include the cost of production, including overhead expenses and royalties, and such profit as might have been derived from the sale of the products in open market. It is realized, of course, that if they were not sold, the value thus derived would be largely a matter of estimate.

It will be appreciated if you will furnish also similar figures in connection with the Edsion bencel plant at the works of the Woodward Iron Coupany, at Woodward, Ala., duplicate blanks for which are sent herewith, together with an envelops for the return of the information. The report in which these figures will be incorporated in now in course of premaration.

V-----

Han Johnston

INCLOSURES (4)

Defenio

EASTMAN KODAK COMPANY

ROCHESTER, N.Y.

June 9,19:6.

Dear Mr. Meadowcroft:

It affords us much pleusure to have the opportunity of sending you today a two ounce sample of Paramidophenol which represents what we consider a standard quality of this chemical.

We are very glad to know what your plans are so far as the production of this article is concerned and we hope that we will hear from you again when you are ready to report further progress.

Yours truly, Many Mungles

Mr. W.H.Meadowcroft, Laboratory Thomas A. Edison, Orange, N.J.

Meadocraft-See Dowlin 10% no longer Care of are pert on fex it up. The period in griding on a General in Dording wir Time Dally to

June 12, 1916. Alexander

Mr. A. C. Phory,

Purchasing Agtes

Orange N. J.

Deer Sir:

I noticed coming through the mail the other day a letter from Butterworth-Judson Co. notifying us, in reply to a letter written them by some one, of the discontinuous of further chi; mente of Mixed Acides until further notice.

You are probably not aware that Butterworth-Budson Co. purchase from up the recovered Sulphuric Acid, after our operation of Mitrating Benzel has been performed. In doing this they have provided us with special cars in which this recovered Sulphuric Acid is returned to thom. I was only able quite recently, after much persuacion, to have this concern forward those openial cars, and now if their future shipments are to be stopped, and the recovered Acid pormitted to run through the sower, a loss will be incurred by this Division.

The care in question are B.J.X. 237, 238 and G.A.T.X. 8043. think a botter way would have been to ack the Gomeral Charical Co. to leaven their shipments and divide our monthly requirements between them. event I leave the matter in your hands for adjustment.

Yours very truly, Courtines

Copy to Hr. Kollow and Mr. Mondoworoft.

987 Jun

June 12th. 1916.

Mr. A. McDowell, President, Scotland Lock Cotton Mills, Scotland Nock, N. C.

Doar Mr. McDowell:

I received your fewer of the 7th instant, which I shood to Er. Edison, and we discussed the metter very fully.

by my of explanation let us say that a year go one of the harmonated eadernies control in to along come contracts unfor which the cuttemor got the oil at left. seecond your. Soon efter their twentills representative tends to core and they withered their terresentative from the fact temperarily units observed their representatives from the fact temperarily units observed their representatives from the fact temperarily units observed the fact of the contract o

we are willing to help you out, but cannot go below \$600 Berginning Jaly your bills will be at the new contract price, \$640 Berginning Jaly your bills will be at the new contract price, \$64, and the other part of the arrangement of the your letter. This can district most below the price of the contract of the your letter. This chall expect you to kindly do so under guarentee as suggested by your letter.

Yours very truly,

assistant to Mr. Edison.

Mason Go chead & daugn Benz, dens plant & Let me see t = Eslemace Cost, Calle Address "Edison's New York" "Trom,theLaboratory Thomas A. Edison!, June 13th, 1916. Peoples Bank. St. Paul, Minn. Gentlemen: We have been referred to you by the Mee North Star Fur Dreesing and Dyelng Worke, Mesers. Fodlasky Bros. Froprietors, St. Paul, Minn. give ue regarding this concerne financial responsibility same ral reputation, how long they have been in business, color detailed with you as well as any other details which would be of service to us in determining on a line of credit to be granted them will be greatly appreciated held etricity confidential and without responsibility to yourselves. Thanking you in advance and assuring you of our willingnese to oc-operate at any time, we remain, Yours veryn truly, of allactions or all the control of allactions or allactio me about of

[ON BACK OF PREVIOUS DOCUMENT]

St. Paul, Minn., June 16th, 1916.

Thomas A. Edison, Incorporated,

The parties referred to on the opposite site eins of this sheet are valued quarter are of this sank. We have and are granting them accommodations. Their business with the satisfactory and we do not doubt but what they will take oare of any obligations they might have.

Very truly yours,

PEOPLES BANK OF SAINT PAUL

Cashier.



W. H. PARSONS MANUFACTURER'S AGENT AND BROKER 17 CHARLES STREET NEW YORK Www Thomas a Ediso Dear Sir On looking over my List of place 1. Buy Colors I form I you letter Dec 6 4.10at that time I Sook what - Color um offered Mr Garafhruglen dramin I wish to get - mous at this times on the Brown shade in lots 10=20=50 Wa providing the Color. is satisfactor. Please send sample Price + quemy I may Epped of Spot Cash Ramany Very Luly your VI Varions

E-R-SQUIBB & SONS, NEW YORK MANUFACTURING CHEMISTS TO THE MEDICAL PROFESSION SINCE 1858

Carbolic

XECUTIVE OFFICE

June 14, 1916.

Mr.William H.Mendoweroft, Assistant to Thomas A.Edison, Orange, N.J.

My dear Mr.Meadoweroft,

Owing to the long delay in receiving your two last chipments of Phenol caused by the traffic con-Gestion and the decline of the market price of Phenol, has placed us in a wrong position.

You have charged us 77% g per 1b. and our present stock is 12000 lbs. The market price is 65 g. Under all these circumstances I would ask you to please have Er. Edison inform us, what price he will make us on the stock, now in our hands, and how he will place us, so as to enable us to market your product with a reasonable profit.

We are anxious to build up this business for you, but we must, of course, have your cooperation, and placing the situation thus frankly before you, we are confident that LT.EMison will meet us in a manner that will be satisfactory to both mides.

Hoping to hear from you by an early mail,

we remain,

THEODORE SEPARALLAL
Vice President
E.R. SQUIEB & SONS.

TW:B

Mr.William H.Meadoworoft,

F.S. Fifteen drums of the Phenol just received after such long delay, have been found by our laboratories to contain red acid. Please let us know whether you wish us to return it to you or what disposition we shall make of it.

T.W.

puiline

Juno 15th. 1916.

Tir. W. H. Hason, Engineer, or, Mr. W. S. Douling, Hanagor, Aniline Division, Silver Lake, H. J.

Dear Sir:

At .r. E iton's express request I write this letter authorizing you to allow 601. Bryant, lr. Roach and Dr. Szamatolaki to go through the antline and henol Plants. Col. Bryant is the Commissioner of Labor of the State of New Jorcey, and the other gentlemen are also connected with that Europa.

Yours very truly,

assistant to Dr. Edison.

Calle Address Mitsui, N.Y.

MINISUN & CO DESIGNED

Richtione 10010. Madison Square.

(Mitsui Bussan Kaishu, Ltd.)

TOKIO YOKOHAMA YOKOSUKA KOBE OSAKA NAGASAKI MOJI NAGOYA KUCHINOTZU

NIIGATA

m.

ADURUSA

MİİKE
WAKAMATSU
KARATSU
KURE
KISHIMA
SASEDO
MAIZURU
MURORAN
AWOMORI
MIYAKO
SUNAGAWA

OTARU SAPPORO , TAIPEH TAINAN CANTON HONG KONG SHANGHAI NEWCHWANG CHOSHUN HARDIN VLAOIYOSTOK DALNY
TIELING
TIENTSIN
CHEFOO
HANKOW
SWATOW
AMOY
FOOCHOW
TSINGTAU
PERING

MOUKOEN SEOUL CHEMULPO ANTOHEN KWANGHINTU BANGHOK RANGOON SOURADAIA CALCUTTA BYONE Y LONDON HAMBURG LYON PETROGRAD OALLAS SAN FRANCISCO PORTLAND MANILA

25 Madison Avenue; New York: June 15, 1916

Mr. W. H. Meadowcroft, Thos. A. Edison, Inc., Orange, N.J.

Dear Mr. Meadoworoft:

I thank you for your letter of the 14th instant regarding the unfavorable condition of our Benzol both in packing and quality.

Will you kindly advise us the detail of the same, and write us very strong letters so that we can use same in order to recover the damage from the manufacturer who sold us that Benzol.

We are very sorry that we have caused you lots of trouble, but hope to return the odurtesy whenever we get the opportunity.

Very truly yours,

ST/KN.

Sharato Treax

zurich, June 15th, 1916.

Thomas A. Edison, Esq.,

Orange N.J.

Dear Sir:-

I duly received your favor of May 23rd and in compliance with your request I have delivered to the American Concul General in this city the process of paraphenylenediamine which is enclosed in this envelope requesting him to have it forwarded to you. Duplicate will follow by next mail.

I beg to remain, donr "ir,

Yours truly,

year D: W. Threshy

Enclosure.

PABRICATION DE LA PARAPHENYLÈNEDIAMINE.

La paraphenylènediamino prend naisuanco par réduction do l'amidonzobenzol au moyen de la pouncière de zine en bain aqueux.

Ι.

APPARMILS:

- A. Chaudron on fonto emailide- dit appareil A mulfone enpacité 250 litres environ; agitateur mécanique.

 Il est assis dans une cure en bois pitchepino
 formant bain-murio et assez spacieux pour permettre
 do refreidir à la glace (morceaux). Tuyanterie
 nécosamiro pour l'eau et la vapour pour le chauffage
 du bain-murio.
- B. Thermomètre enfermé dans un tuyau de cuivre, fermé d'un côté.
- C. Vase on grad de 100 litres environ ou à défaut une petite euve en bois avec rebinet en bas; cert peur emmagaziner la solution du nitrite de soude; 11 est placé au-des-une du chaudron.
- D. Deux à treis marmites émaillées de 309 à 509 litres.

. The de later to the same

-2-

- B. Appareil destillateur de 300-400 litres avec accessoires nécossaires pour condonsation et réfrigération.
- F. Réservoir en têle, forme oilindrique, de 400-500 litros servant de décanteur pour l'aniline condensée avec vapeurs d'eau.
- G. Réservoir en tôle, forme rectangulaire, 1,20 m x 1 m x 0,80 m servent à lever l'amideazobenzel brute.
- H. Séchoir; double fond, plomé en fonte, de forme sphérique avoc rebord. Diamètre 1,20 m; profondeur avec rebord 850 m/m; profondeur sans rebord 150 m/m.
- I. Moulin.
- K. Doublefond fonte; 400 litres environ. Couverele formant hermetiquement on fonte, avec agitateur, muni d'un réfrigérant à flux et à reflux; doit se combiner, c'il y a liou, avec appareil réfrigérant pour condensation/alcool et/latifiése.
- L. Doublefond & évaporer, afin de concentrer les euux chargées de paraphenylènedismine.
- M. Vases en grès ou marmites émaillées à oristalliser, de 50 à 60 litres.

A STATE OF THE STATE OF

13

_3-

II. Préparation do l'Amidoazobenzol.

Dans le chaudron -A- on porte:

Kos.60.- Aniline puro, qu'on emène à la température de 5-10 cela, moyonnent de la gluce ou de l'eau glacécedens le bain-surie; puis on met l'agitateur en merche et on fait couler dans l'aniline, lontoment en ayent soin qu'il n'y ait guère d'élevation de température

Mos.25.- d'acido ohlorhydrique 21°Bé (p.spec. 1,1)).

 $\label{lintroduction} \mbox{Aprèo l'introduction de l'scide ohlerhydrique}, \\ \mbox{on fait tourner encore pendant deux houres.}$

Ensuite on chauffe A 25°Cels. of on fait couler lentement dans l'empace de deux heures de temps environ une colution de

Kon.50.- Hitrite do soude 20; (p.spec.1,14) en pronant coin que la température ne dépasse pas la limite indiquée.

Lo nitrite could, on laisee tournor le diazoencore pondant deux heures et en arrôte ensuite, pour lainsor repesor le milange à température ordinaire pendant 24 heures, temps nécessaire, pour la transformation en amidoscolomadi.

. 4 15 43

-4-

On transvase dans une marmite émaillée- 400 litreset on y ajoute peu à peu en brassant bien

environ Noc.12.- de soude caustique 40°Bé ou la quantité nécessaire pour rondre franchesent alcalin, ce dont on se rondra compte par une épreuve. Le mélange alcalinisé d'amidoaxobensol et d'aniline est porté ensuite dans un appareil double-fond-ééstillateur-2- en fonte on en ouivro, dans lequel on a mis d'avance l'ollitres d'eau. L'amiline est chassée par un courant de vapeur direct, recueillie par le réfrigérant et décentée, pour rentrer à nouveau dans le courant de la fabrication.

Le résidu dans le déstillateur, délibéré de l'antline est, après refroidissement vers 60°cls. transvasé dans un réservoir en tôle 1,20 m x 1 m x0,80 m pour y être lavé à plusieurs reprivoir en tôle 1,20 m x 1 m x0,80 m pour y être lavé à plusieurs reprivoir en tôle 1,20 m x 1 m x0,80 m pour y être lavé à plusieurs reprises à grande eau, jusqu'à rénotion neutre. On jette ensuite sur des
filtres et en laisse égoutter à fond. Ensuite on le porte dans une
marmite émaillée, tarée, afin de connâitre son poids; on brasse et
remue intimément pour en faire une bonne moyonne et on fait par
éprouve une détermination de la matière shèho. Badé sur cette analyse,
on calcule la quantité nécessaire d'acide chlorhydrique pour la
transformation en ohlorhydrate d'amidessobenzol qu'on verse, peu à
peu, dans le marmité en brassant bien.

Finalement on porte sur un méchoir double-fond plombé, chauffé à la vapeur à écheppement libre. La masse, bien remuée, fond en bouillie homogène; on y verse envore environ 55 de la quantité calculé et déjà employé d'aoide chlorhydrique et en brassant de tempe en tempe, on évapore à siccité complète. Dans un moulin en fonte on remène en poudre fine.

. .

-٧-

III. Reduction de l'amidoasobenzol.

Dans un double-fond- %- aménagé à chauffer et à refmoidir, avec agitateur et cohobateur (réfrigérant ? reflux) on porte:

20 litres d'alcool 85% ot

40 Kos. chlorhydrate d'amideazobenzel pulvérisé. Après avoir fait tourner quelque temps,

pour bien humecter la masse, on y verso

120 litres d'eau et en chauffe lentement vers 65°Cole.
Un commence alors à ajouter, per petitos

portions, peu à peu

nos.30.- do poussière de zino do bonne qualité, on évitant, que la température monte au-delà de 75° Cels.

Après quolques heures- 4 heures en moyen-

ne-lorsque l'addition de la poussière de zine est terminée, on chauffe jusqu'à 85-90°Cels.; on maintient cette température pendant une houre au moine.

Un arrête alors le chauffage pendunt un instant et dès que l'ébullition de l'alocel s'est apaisée en ajente, Kos,12.- de carbonate de soude en poudre (Soude Souray)

pour rondre alcalin. 31 une apreuvo a montré une franche alcalinité, on transforme le cohobetour en fréfrigérant descondant et en recommence de neuvonn à chauffer pour chasser à abord l'alcool, qu'on recomille, et qu'on fait passer enquite à la colonne. L'alcool enlevé, en injecte de la vapour d'oau pour faire passer l'amiline formées par la réduction ot qui peut rentrer de nouveau dans la febrication.

La quantité est de 10-12 nos. environ.

après être débarassé de l'alcool et de

l'amiline le contonu chaud de l'appareil passe par un filtre.

lònediamine est portée dans un doublefond pour s'évaporer sans retard.

Le récidu du filtre,lavé avec un pau d'eau

chaude, est remio dans l'appreil pour y subir un second bouillon avec
60 li'res d'eau environ peasent '-l heure, sfin de bien & crait le
reste de la paraphenylèndiamine, on filtre ensuite à noveau, en lavo
A l'eau chaude et laisse bien égoutter, ainci lavé le résidu est
éxaminé, s'il y a lieu de f'ire encore un autre bouillon; sutrement
en le jette de côté. Foutes les solutions filtrées sont réunies avec
la promière solution et sont évaporées et concentrées à un volume
de 50 à 60 litres environ. Un fera sur un petit échantillon prélové
l'observation de sa c'istallisation c.a.d. de sa concentration.
Un le porte ensuite dans une marmite écuillée en laissant refroidir
et cristalliser pendant deux jours.

riltré par la suito, il roste sur filtre de gos.18.- à 20.- de parephenylèndiemine en cristeux.

(mant aux-mères, on réunit généralement

pluciouro opérations ensemble. Après les avoir réduites, on y ajoute de l'acido chlorhydrique à fôte dose et par refroidisemment on obtient tout le resto de la paraphenyldendiamine sous fo me de chlorhydrato, étent incoluble dans l'acide chlorhydrique.

Prix de revient.

K08.60	Aniline pure	1.50	rrs.90
	nitrite de soude	85 %	10.20
- 12	Soude caustique 40 Bé	25 %	3
	Acide chlorhydriauc	12 %	12
	Alcool 857	1.50	30
	Poussière de zinc	50 %	15
	Soude Solway	12 %	2.40
			rrs.162.60
Kos.12 Aniline de retour à Frs.1.20			14.40
	ubanvlondismine		Frs.148.20

1 K. = Frs.8.50



9161 EE 30r

or negh

(H. Opdyke. Con Down Co

We will have to wash all supphalmer pour white type well from both from the probability for to se Sublemer word of the washes you can got better our sale of sublemen, I shall the form that of yellow with Price in half. I shall sum of the Samples you gettend were all. The not was gettend out out of you want for what for by Spanning Each Bank we loud ship the aux were

(Dept.- single copy.) AMERICAN CONSULATE-GENERAL ZURICH, SWITZERLAND

June 16th, 1916.

Mr. Thomas A. Edison,

Orange, New-Jersoy.

Sir:

I have to colmowledge the records of your letter of May 858, encloring a check for Isty, 61.15.0, drawn in fewer of Dr. W. heacht, whose address in 67, Mus du Mighi, furich, which you request which office to hand to to br. Lincolt in enchange for a certain chemical process, providing we are satisfied that Dr. heacht's representations are correct, to the effect that he is a chewical engineer of the Peteral Polytechnical School at Surich and helder of the Destroy of Philosophy Pearse of the University in Surich, and hen also been in the employ of the Prench Torks of the Ladische Arilin and Seda Pabrill as of the Veines du Phône at La Plaine, near Coneva.

In reply I have to state that Dr. Impost has collect this Compulate-Concret today and exhibited various dominate, contracts, etc., indicating that his representations to you are true. I have therefore, in view of possible request, to transmit herewith a latter addressed to you from Dr. Impost, enclosing that purports to be the describation.

description and formulae for the manufacture of parapheny-linedianine.-

It is understood that a duplicate of his description with formulae will be forwarded in a subsequent mail.-

I am, Sir,

Very respectfully yours

Premois 7. Peene

.Perios: Consul-Concrel.

Diclocure as stated.

865.7

Door Er. Dowling:

I hand you herowith a little correspondence we have had with the Scotland Hock Cotten Hills in regard to their aniline Oil. Mr. Helbowell was up here a week or two age and made an explanation of the possition in which he is placed, and asked if we would favor him that a rebate on the new contract. Mr. Edicon declined to do so at the time, but in view of the representations made in Mr. Helbowell's letter of the 7th instant, Mr. Edicon agreed to rebate him down to 46d per pound on the new contract.

You will see from this correspondence that all chipments on new contract are to be billed at 60%, and at intervals we are to med him a robate bill bringing the price down to 45%. I think we had better do this at intervals of two menths.

You can keep these copies of the correspondence in your files, together lith this memorandum, which will be your authority for making the relate.

W. H. MEADOWCROFT.

Enclosures.

ALL CONTRACTS SUBJECT TO STRIKES, ACCIDENTS AND GAUSES BEYOND OUR CONTROL ACCIDENS ALL BUSINESS COMMUNICATIONS TO THE COMPANY AND NOT TO THE COFFICERS OF EMPLOYES

A.H. WOODWAN CHARL PRESIDENT VECTORISMENT,

TREASURES.

WOODWARD IRON COMPANY

WOODWARD, ALA. June 19, 1916.

Mr. Thos. A. Edison,

Orange, N. J.

Dear Sir:-

We are in receipt of yours of the 16th.

We are entirely willing to pay one-half of the \$516.10 mantioned in your letter, being the compromise covaring shipment of naphthalone to the Pacific Coast.

We note that you say in regard to all of us being now at this business. So far as we are concerned, we are entirely satisfied with the way you handled this flaked rephthalone busness and appreciate your assistance in the matter vary much.

Yours truly.

Mr Edward southments are glasse southway.

ODDWARD IROE STRANT,

Who President.

yes ton

ISTINITURESING AD HIG VOICE

ST. PAUL, MINN. June 19th. 19 OF The Machinatory of Thomas A. Edison, Orange, N. J.

Attention Mr. Meadowcroft:-

Dear Sirs:-

Your favor of the 16th. inst. at hand and also your contract form. We are herswith enclosing the contract properly filled out and hope same will find your approval.

As we are in a bad need of dye material we wish you kindly will forward the fifty pounds, which you state in your letter that you are able to send at once.

Trusting we may have a favorable reply, we remain,

Occasi act of white hed to a formal.

Yours very truly, so form to the man act of the state of t

post over See present by 13/16

P.S.

If possible, wish to have two shipments every month., of 50 pounds each.

CARBOLIC ACID DIVISION.

Silver Lake, N. J., June 20th, 1916.

Mr. V. H. Meadoworoft:

Subject: DISTILLING OF 90% BENZOL

Referring to our convorsation over the tolophone this attornoon, I beg to inform you as follows: Data given from previous distillations or 90% Bensol show that the cost, based on 1,000 gals. of Bensol going into the still are:

. For	Stoam	\$ 4.25
**	Water	.50
"	Electric Light	.20
**	Labor	17.00
	Total	21.95

In case we would add to this overhead expenses, we would count 280% on labor, i.e., - - - - - - - - -

on labor, 1.6., 955

Grand total, including depreciation - 69.55. 7607

The figure for depreciation - 280% -- appears to be

rather high, but this is in lime with instructions we received lately, and according to which the depreciation has to amount to 35-1/5% of the total investment per year.

We can safely figure that we can distill every 24 hours (running day and night) 800 gais. of 90% Bensol going into the still. I am always montioning the material going into the still only, as the output of Bensol Blonds, P. Bensol, Tuluol Bends, P. Tuluol and Solvent Hoghtha depends ontiroly on the quality of the raw material.

M. KAMPZHOFF.

Orange, M.J. Dear Sir: Will you please quote ue your lowest pri to would be glad to consider an arrangement for Iron U.S.P. (Iron by Hydrogen) and if so, what price, mailing us also a sample for examination CKRODY CHEM! tu.uce.\

CARBOLIC ACID DIVISION.

Carbolie Silver Lako, N. J.,

Juno 21st. 1916.

Mr. W. H. Meadoworoft. Edison Lab.

Subject. FILLING OF P. PHENOL PROM PHENOL PLANT #2 IN BOTTLES.

I have thought over, how to arrange filling into bottles of P. Phonol to be delivered by Phenol Plant #2 to this plant, the scheme which you outlined to me on the telephone yesterday afternoon. As I meet with quite some difficulties, I think it better to invite your attention beforehand to the situntion so as to enable you to come to a final decision.

At present we take the hot Phenol coming from the still, fill it into specially prepared cans and transport it to our filling tables whilst the Phonol is still hot. The transfer from still to filling tables is being made by means of low trucks fitted with wheels, and this has to be done very carefully so as to avoid splashing of the valuable material. The cans are heisted up and put into drums, where they rest upon heating coils so as to keep the Phenol in hot condition whilst it is filled into the bottles. Special caro, of course, is to be taken to prevent any dust or dirt from entering the Phonel during this transferring and filling process.

If we now would get the Phenol from Plant #2 we would, of course, have to let the material stand until it becomes crystallized. The transfer of the cans into which the Phonol is to be filled will have to be done vory carefully so as to avoid breaking of the outgoing pipe connected to the bottom. After recoiving the filled cans with the crystallized product by means of a truck we would have to melt the crystallized Phonol, which would, of course, take quite some time, whilst under abnormal weather conditions, when much humidity is in the air, we run the danger of getting the solidifying point lower than it ought to be.

Furthermore, we have now for our present service eight 200-1b. transporting cans fitted with pipes on the bettem, four being ready to be filled whilst the other four are being emptied into the bettles. In case we have to receive Phenol for the same purpose from Plant #2, I suppose that we should have at least eight more of these cans.

It seems to me that we might from this arrangement, preferably at the transfer of the special came on trucks, in leading and unleading, experience quite some trouble, and that the extra exponses would amount to quite some money. I, therefore, would like to suggest that:

Either a similar arrangement for filling bottles as I have put it

up in our plant be made in Plant \$2; or, That we fill bottles with Phenol to be delivered by Plant #2 from our own product, and that instead of such supply Plant #2 make delivery of P. Phenol in 250-1b. cans to customers which originally ought to be supplied by us.

If you could spare the time to just take a look at our arrangement for bottle filling you would see that the expenses have been quite low, and I presume that it might induce you to decide to have the same arrangement made in the other plant.



prossure of business and the writer having been away sick we regret that you were not written to regarding your shipment of June 6th, seven drums of Antline 011. Our Jorks Hanger reported regarding those drums as follows:

"Those soven drums are rejected on account of the doop yellow color of the distillate, which spoils the final product."

He followed the precedent in shipping them back without awaiting further instructions.

We are very much disturbed to hear that it. Milcon feels that we are chippin; these back without proper reason and in order to avoid our contract oblightions. Boom time age in. Mondowerest told the writter that he came to the city periodically and vould call upon him. Morremakes always had be promoted to the contract of the contract

We would be most pleased to have a representative call at our factory and let Dr. Schaefer, our Jords Immer, described to him the unsuitability of the rejected deliveries and the difference between the present adjuments and those sent at the beginning of the contract, which were entirely satisfactory.

Yours vory truly,

MEN YORK QUINING AND CHELICAL WORKS

DLick/ILi

Soul McKesse -

Near Un Mosain. par a few khare about four (4) were afor I ordered the lin les don crops_ 10 suns of austic read this / has not anned Sur (2) weres ago I ordered a car of strow oil the the channel + no intice of Thipmet has as yet aimed - Buford the adount of the I ecutarial service departituent Thomas a. Ecusion, Parkand," & go It is vary evicent that the good service in the way of above deportues. does not realize That is taken wor thou form + conversation to how a Bangot plant - If it had not have for the fact that the Combia Burgol. had a stock of caustic on hand we would have her tred up a week ago - The same thing is going to hoppon in The mater of straw

I am sure This a few clays is not Ulr. Meadowerofts fruit as he has always been most persupot and obligging - another teling are local lives (not combine) but local supply hours are not getting their many on their - I had a statumes of our account (Swars Howar (3) when the bue was 4 mos are due ? This Show of not be, with local people, when we want to deal in a " humin four as to Pay Pour This is, as usual, two days overains. some was part - as you know this is many among - I man The man long hours & I hate live the duce to make them wait for this money I have Sporting so often about this but this been to min, like a small thing to court -He are gating along my musely will the Hofe stee + expect to how is suring to- niger Bacan

Juno 2771, 1916.

Carbolic

tolophonos in priced by "formion r. i. enveloper the form of the form of the form of the form of the form of the form of the form of the formion of the form

That he had a stock of finished product wound at approximately 75,000 and a stock of ran torial valued at approximately 925,000.

at home the process of the product of the time of bout the process of the could not took definite any of the process of the order of the process of the proc

f telephonod depend, evens de hilligo posterddy aftermoon and requestes them to place this addition. I mount.

Now your in formation, I might say that at the properties owing to the number of fires we have had of our different plants this jet the insurance Companies do not soos to be over and one to incurs our risks, fewers, (vone, initially also distributed to to pince this additional insurance, and they action is. they were pretty mane of being attached in being able to place the entire account. I will follow that satter up Sile, and if the entire about her not been placed within the next two of three desar will notify you.

This separations having not been serious by the state of the cold living on state index on the state of the s

... Ald

insurence o vice deport, out.

E.G.

C.C. Hesers. 1.3.70 bort, Char. Silicon, C.E. Allcon, P.D. Fordoveroft and L. Framer off.

June 26th. 1916.

Wostorn Fur Drossing & Dyoing Works, 266 State Street, St. Paul, Minn.

Gontlomon:

We have received your favor of the 19th instant, onclosing contract for 100 pounds of Paraphonylenediamine per month fro June to Decomber, 1916 at \$8.75 p r round. Please accept our thanks therefor. Shelosed you will find copy of the contract signed by \$\text{irr}\$. Sation.

As you ctated in your letter that you are greatly in need of Perephenylonodiamine, so have forwarded to pounds by oxpress, and trust that it will be estimatery that we have sent it by express rether than by Treight.

to will forward to you two shipments of 50 pounds overy month, one shipment at the beginning of the month, and one say, in the third week of the month. How will that suit you?

Yours vory truly,

Edison Laboratory.

Enclosuro -

Br. Edison:

I examined this mill comotime ago at your directions and made verbal report to you. The Fuller idll is and type and of occurse is worn in all parts. The mill is in practicelly the same comitation as the five we had at the coment plant and could be not up and operated in its present conditions, and would pulverise. She should not bearings are torn and pusher clowe is exceled, but we continuously operated them in this condition. The mill is of an obsolete type and I would not recommend it for a permanent installation for undoubtedly there are several types of more officient mills in the market. I believe Mr. Sudson has decided to put in a Markings mill which is a type of tube mill and I believe will be more efficient than this old type Fuller mills.

MASON.



Mr. Thomas A. Edison,

Orango, i.....

Dear Sir:

To me in receipt of your better of June 34th. Our Dr. George L. Schaefer will call up probably tenerrow and ank for kr. Londowereft, in order to make an uppointent to see you anguest. The writer himself would have been glad to take advantage or this exportunity of meeting you, but this is provented by ill health and he impose that he may have the pleasure at some future time.

Yours very truly,

121 YORK QUILLEN AND ORRESCAL WORKS

Arable (Strated)

Dischi/Hit

June 27th. 1916.

Mr. John Bacon, Jr., Edison Benzel Plant, Johnstown, Pa.

Door Sir:

the lines showed me pectarday your letter chost the strew oil and constic code. I me very corry for the delay. I ordered both the cuntic code on the traw oil immediately on receipt of your letter colline for seen. I can teld that the constic code was shipped from Silver Lake on June 12th and should be in your hands now.

I am just this moment in receipt of your telegram etcting that you have had no notice of the minimum of the car of etwar of the car of etwar of the car of

Yours vory truly,

Assistant to Mr. Edison.

T. A. Ebison, Bengol Plant Ur. in M. landow west icet to the Edward. .c sor Lir: inclosing an want for 100 brune Tolerof superiores - If you continu . hijoping . Tolerol in Themes

[ATTACHMENT/ENCLOSURE]

T. A. Edison, Bengol Plant

Janet wainy agent - Jane 2.1816

Direct wainy agent - General Attornationies,
Crange & S.

Veror Sir:
Thinks you warn for our account
The odorowy
Time otherwise Co.,
Cathebraya Co.,
Cor load "13 gauge shawe.
(James as befor example)

Janet Bacow Jr.

Janet Bacow Jr.

Japet.

Johnstown, Pa., June 27, 1916.

Dear Mr. Mason:

We started changing #1 Husel yesterday and will get it finished by to-morrow morning #2 is a voucer, we made yesterday 826 goes or it and for country last night the steam was low, or we would have gotten 900 goes. It works fine no pressure, and the oil goes through as fast as we can pump it. Nothing to it?

mail tank to take care of the Amp. Dapt. for a small tank to take care of the Acid tan, 35° x5', this will be placed near the washer to drain the tar into and from there (while it is still hot) blow it with air to Cambria's reclaiming tank -- This takes care of the tar, the caustic they are going to let go into the drain.

Their present idea is to build a small reservoir to catch this drain water and use it for quenching the coke, of course, this is all Campria's expense. The pay roll has a trived yet, 6 days late. To save myself a lot of embarrassment. I dug up \$450. to pay the men.

This is a rotten deal. I could not get any more from Cambria so am doing all this work mywelf. I have put on two extra men until this is finished. We have a good deal of work on hand. I want to put in two extra coolers, (we have them on hand, some that have had new tubes put in] and a lot of pipe work in connection with the Naphthaline tank and acid tar tank.

let me know how you are progressing as to having them cast so I can plan to receive and place them.

Yours truly, /s/ Bacon.

Notation:

Harry Miller: Let Eacon have capital enough ahead for one payroll, this will stop this trouble.

Me Mir and Many Kana Strand of the Many of

AMERICAN OIL & SUPPLY CO.

OILS, GREASES, ACIDS, CHEMICALS AND DYESTUFFS

92 WILLIAM STREET

HOME OFFICE: NEWARK, N. J.

NEW YORK CITY

June 27, 1916.

hr. J. Leadoweroft, Edison Laboratories, Oranga, H.J.

Dear Sir:-

Je have sent to the following a letter, as per the attached copy, which is self-explanatory. This was done at the request of Mr. Hoffmann.

The Bayor Co.,

The Heller & Herz Co.,

H.A. Metz & Co.,

W. Beckers Amiliae & Chemical Works, Inc., Schoellkoof aniline & Chemical works, Inc.,

Reidich Process Co..

Hemingway & Co. Inc..

Standard Anilino Products, Inc. Hick

> Yours very truly, MERICAN OLL & SUPPLY CO.

Quince

[ATTACHMENT/ENCLOSURE]

Juno 26, 1916.

The Bayer Co., Albany, H.Y.

Gont lomon :-

We will have for delivery beginning about August let Beneidene in the form of Free Base, Sal- , phate and Mydro-Chlorate.

We will be very pleased to have you advise whether you are interested in these naterials, and if so, whether you would eare to enter into a contract for either of them for a specified amount monthly over a period of six menths or a year.

If you will advice us that you are interestod, no will be very glad to submit our proposition to you. Thanking you in advance for your courtesy,

Yours very truly,
AMERICAN OIL & SUPPLY CO.

AEJ:CH.

June 28, 1916. Awitine

MEMORANDUM TO HR. EDISON. LABORATURY.

Dear Sir:-

At the beginning of operation of the Amiline Plant, it had been our practice to pay the operatives for an 8 hour day, 30 cents per hour, the foremen of operations, 40 cents per hour, and general foremen 422 cents per hour. As new men were employed to take the place of some who had left, or to care for the additional work found necessary in the mill, the mon who had been in the service longer did not rolish socing the new hards being employed at the same rate por hour as they were receiving, and requested no to grant them an increase. This was donied, and we adopted the plan when engaging now help to pay them 25 ots. per hour, and so they became preficient they were increased to 27 ots. per hour. and if they merited it, they were afterwarde given a further increase to 30 cents per hour. The conditions of labor are, and have been, such that it became nosessary in many onces to make those increases follow closely upon each other, in order to retain the help then employed.

A potition was presented to us, signed by approximately all the men of the Amiline Plant, deceanding an increase in wages to the extent of 35 cents por hour. This was refused, and they consented to remain at their work at 30 cents per hour, having confidence in us to continue the employment of new mon in the method I have above described.

This mamorandum is handed you because the question is about to be raised so to the reason for our giving such rapid increases, and your approval of the plan we have followed, indicated hereon, will be very much appreciated.

Yours very truly.

P. C. CHRISTENSEN.

COPY

DR. H. SCHWEITZER, 410 RIVERSIDE DRIVE Day nelling whout this

Not good forms

How York, June 29th. 1916.

Considerable of foliar-

Dear Mr. Meadowcroft:

I went over the figures submitted to me by Mr. Christensen and find that they are all theoretically right.

By careful testing with red litmus paper he might save some Soda when making the combination with Phenol.

Salt he will surely save if he allows the combination liquid to stand over night as we have talked it over.

He will probably also use less sine dust if he carries out the experiment we thought might lead to this favorable end. I hope that nothing but success will orown your efforst. I am going away toworrow over the holiday and hope to be back in New York Steurday of next week.

Leanwhile I should like you to submit to Mr. Edison my idea concerning phonographic records.

Many users of Mr. Edison's machine and myself think that the orchestra which he uses is very, very poor, much poorer than those of his competitors.

How I have a riend who has, as is generally considered, the best oxchestra in the City, namely, kr. Hathan Franko. He plays at the most elegant functions of our richest society and also in some hotels. During the summer he is not much engaged and I em sure that kr. Edison might come to terms with him. kr. Franko is in my opinion one of the greatest violin players and I cm sure that his soles would surpass those of Spalding of kr. Edison's records. Mr. Franko is spending his summer in Long Beach and I would be very much pleased if I could bring him kind Mr. Edison together.

Can you do anything for me in this matter?

With kindest regards, I am,

Yours sincerely,

(signed) H. Schweitzer.

LOUIS LAZARD

DYESTUFFS - CHEMICALS
92 WILLIAM STREET

NEWYORK

CABLE ADDRESS
"ANJURAZA"
ANTECOS STENSON
TELEPHONE JOHN SBIG

ZARO-GODDHAUX COLUP
422 STRAND
NGON - ENGLAND
NEW

Mr. Meadoweroft.

e/o Mr. Thos. A Adison.

Orange H. J.

aison. high y g swimmer of Jeward Car preser of Jeward Car preser of Jeward To My is cheapen

Some time ago, you asked me for a quotation on

quoting me #255.00 per ton of 2240 pounds, f.o.b. French Bort, subject to export licenses being grented, not each acceptable delivery.

I trust to be favored with your orders and in the meantime, I am

Yours very truly

2240 25560 11,

LD

Para

ROBERT T. LOZIER ENGINEER

NEW YORK
June 29, 1916.

Mr. W. H. Meadawcroft, c/o Thomas A. Edison, Inc., Orange, F. J.

Dear Mr. Meadawcroft:

Mr. I. Brocher, Sales Manager of the Globe Chemical Company 202-204 Centre Street, New York, is interested in the following chemicals. Paraphenylenediamine, Benzidine, Aniline Oil, Aniline Salt, Dimethyl Aniline. Would you be good enough to advise me if you can supply these various chemicals, stating the quantities and prices respectively.

Awaiting with interest your reply, I am,

Robot John

RTL:RG

(9341)

Edison General File Series 1916. Chemicals (E-16-16) July

July 1st. 1916.

Hr. mobert T. Losior, 141 Broadway, How York City.

Dear Mr. Lozier:

and of the second secon

precent time, and are unable to give quotations to extensive at the horover, it contembration to give quotations to others. Ar. Relean horover, it contembrating the practice up of an eddition to his plant within the next for weeks, in which ence we call as we have to dispose of. I am under the because it all himses on the process of the process of the community because it all himses on the question should not be able to get opperature suitably.

our contract requirements, and it this time we are in societion to surply you lith from 1 to to rounds on Lindy short notice. Our wrice on this is (A.OO per round, and lr. sairon tould allow you a commission of 26% for pound.

Yours very truly,

essistant to Mr. Edison.

Mason Beller moestigale cathere willler.

Steam goes = I can't seedings in it.

Oteam goes = I can't seedings in it.

2. a. Edison: Who I to should moved a since it.

Subject: 0 FRA I 00 HS W H F I D H

Combject: 0 FRA I 00 HS W H F I D H

In my report of consists I said that at that time or time believe wore operated to their composity, and that I t would mainly depend on the steam consumption in the Anillum Division, if and how main the load would decrease during the summer months. For your information I beg to give you hereafter data from our records up to and including the month of June;

Month		Total consumption of coal in pounds	Consumption of Coal for 1 day, according to dully report. Founds
1915	Hoy	870,020	33,440
n	June	1,114,170	48,260
n	July	1,003,960	41,420
11	August	982,060	36,700
11	September	1,056,200	45,600
"	October	1,700,485	72,100
u	November	2,154,086	91,800
п	Docember	2,295,142	94,830
1916	Jamury	2,507,291	95,760
"	Pebruary	2,846,700	110,960
**	Larch	3,224,760	125,780
	April	2,527,640	108,360
я	ling	2,524,670	100,080
"	June	2,792,538	109,080.

Those figures prove that, although no stoom to used at present for heating purposes, the total consumption of deal in June was almost as high as in Pobruary, and not much lower than in Harch, the latter being the month) with the highest coal consumption so far, Several months ago I asked the anilime Division, as well as the Edison Chemical Lorks, to lot me know the figures of their steam consumption which in all probability will take place in the future. They are obviously not in position you to state their domand. The Edison Chemical Works are talking of about 100-horse power increase, whilet the Anilime Division could not give any figure whatever. I fool, however, that I ought to bring this question to your attention as early as possible, so that you can decide at the proper time if, and to what extent, the beiler plant ought to be enlarged.

It seems to be quite sure that with the present outfit we would not be able to keep the plants in operation to their full ortent during the coming winter. We must also not forgot that the two older believs, which are in operation since January, 1915, ought to have been cleamed daring this summer. We have so far had no trouble with the tubes, but would have to shut down part of the plants in case a repair of some kind would be required, as we have no boiler in reserve.

Provided that the plants shall be kept in operation as at present during the winter menths, we ought to have one more boiler for the growing consumption of steam and, if possible, a second new boiler for the sake of safety and reserve.

Lately the question of smoke from our three belief stacks has come up again. That offeet the varying load on the believe her in regard to the smoke was clearly soon yesterday. The end communction falling off to over 70,000 pounds per 2% hours, the smoke from the stacks almost disappeared complicity. I hear to-day from in: Lisson that you gave permission to try hard coal instead of soft coal. This probably will better the conditions as far as the smoke is concerned, but I do not know how far the officioncy of the believe will be affected.



American Oil & Supply Co.

Oils, Greases, Acids, Chemicals

52-54-56 Lafavette Street Newark, N.J. July 3rd, 1916.

Mr. T. A. Edison,

Orange, N. J.

Mr. W. H. Meadowcroft.

Dear Sir:-

The third and last lot of Oil of Myrbane is being returned by the Monsanto Chemical Works, St. Louis, Mo. It has been impossible to suit these people.

These ten drums were returned June 23rd from St. Louis consigned to American Oil & Supply Co., care of T. A. Edison, Silver Lake, N. J., in N.Y.C.& H.R. car #115346.

We enclose copy of B/L together with their freight bill for \$75.60 outgoing freight which we must in turn allow to them.

Will you kindly see that when these goods arrive they are credited to our account. We have charged them up to you and formal invoice will go forward under separate cover.

We are not going to try to please these people further as our experience with them has been very unestiefsctory.

Yours very truly,

American Oil & Supply Co.,

سيلسن

July 5th. 1916.

Elyria Enamoled Products Company, Elyria, Ohio.

Gontlomen:

I am triting in the hope that you may have eaught up fairly well with your orders, and that you might be able to furnich a still of about 1.6 gallons capacity within a chort time.

Wours very truly,

P.S. Please mark your reply for attention of Mr. Mendomoroft.

boul. Cic

July 5th. 1916.

American Vil & Supply to., 52 Lafayetto Street, Bowark, B. J.

Gontlomon:

I am writing now in rogard to the adjustment of deliveries of themel as between No. 1 and No. 2 Plants.

Under our centract urrangements with you we are to the supply you with E900 pounds of shoonly not apply. This has causally boon delivered from No. 2 Plant. When we started the bettiling business, heaven, we found it was descirable from our manufacturing standpoint o have the bettil Phenol put up at No. 1 Plant. We will, therefore, adjust the matter each month by deducting from the sucual deliveries to you from No. 2 Plant the quantith that has been bettiled and chipped during the month by No. 1 Plant.

At this writing the shipments stand as follows: No. 1 Fight shipped to you in Juno a total of 4440 pounds of Phonol in bottles. For the sake of making easy delivery in standard packages, let us call this 4500 pounds.

To adjust this, we should omit delivering 4500 pounds from No. 2 Finnt of this 4600 we omitted one day? de delivery, namoly, 2500 pounds, one day at the latter end of last month, and to complete the adjustment we will deliver to your tenerrow from No. 2 Finnt only 500 pounds, inctend of 2500 pounds, thus making a total emission in billing from No. 2 Finnt or 4500 pounds.

Trusting this will be satisfactory to you, I remain,

Yours very truly,

Assistant to Ar. Edison.

Jalus?



E.I.DU PONT DE NEMOURS & COMPANY

WILMINGTON, DELAWARE

PURCHASING DEPARTMENT

(9452

July 5, 1916 OUR FILE "WJRH"

Thomas A. Edison, Orange, N. J.

Gentlemen:

Attention of Mr. Meadoworof.

Referring to your letter of the let inst. with regard to the shipment of c. p. toluol to us in tank oars instead of drums for the present kims, at least, we have no objection to your shipping in tank cars, provided of course, that you furnish the car, as we have at this time no tank cars suitable for the transportation of water-white c. p. material except those which are required for handling the production of our Refineries.

You state that you are producing somewhat more than 120 gallons per day at Johnstown, but do not indicate how much. As your last shipment to us was made on June 19th, presumably you will be able to load an 5,000 gallon tank car by the midule of August, or there about.

Will you kindly advise whether you desire to move this material, for the time being, in tank cars, and what is your approximate production per day at the present time.

Yours very truly,

Assistant Purchasing Agent.

WJRH*ARJ.

[ATTACHMENT/ENCLOSURE]

Alle went appointed to accorded to the contract of personness of personness of the contract of personness of the contract of personness of the contract of the

[ATTACHMENT/ENCLOSURE]

Know if it covered to a contract to your to your to we forward 120 gall per day live affection to end of the Contract, or must be a day to you to send it has matter as so or to decords the succession the send it is not the send it is not to send the send it is not to send the send it is not to send the send it is not to send the send to send the send to send the sens.

Carre

Silvor Lako, H. J., July 6th, 1916.

Mr. W. H. Mondowerort;

Subject: PRODUCTION OF P. PHENOL

Moforring to our telephone conversation of yesterday, I beg to submit hereafter a record of our monthly and daily production, beginning March, 1915, and closing with June, 1916.

		No. of working	Production	Production per	
Month.	llo. of days in month	days in month	total in lbs.	day of month	working day
1915					
March	31	31	115,109	3,393.5	3,393,5
April	30	30	94.889	3,162.9	3,162.9
lay	31	31	108,217	3,490.9	3,490.9
June	30	30	122.126	4.070.8	4.070.8
July	31	31	131.577	4.244.4	4.244.4
August	31	31	140.737	4.539.9	4,539.9
September		29	137.866	4.595.5	4,923,7
Octobor	31	31	165,822	5.349.	5,349.
Hovember	30	27	199,977	6,665,9	7,406,5
Docombor 1916	31	22	170,030	5,484.8	7,739.5
Jamary	31	23	162,729	5,249,3	7,075,17
Fobruary	29	24	160,293	5,527.3	6,678.8
March	31	27	172,132	5,552.6	6,375,2
April	30	21	173,739	5,791.3	8,273,26
Liny	31	26	194.032	6.259.	7,462.7
Juno	30	23	185,646	6,188.	8,071.5

The above record shows that up to October, 1915, we were working overy day in the month, i.e., wook-day as well as Danday, with the exception of September, then us lost too days oring to Labor trouble. From Evernthe the contract of the Contract of the Contract of the Contract that was call produce //OOD 19. you working day, and more, but at this same time the congestion of the traffic on the relivonds caused a cortain lack of row material, decemening the number of working days per month more or less? Cherefore, from Jamury of this year on no shanedorms for the Contract of the C

In spite of losing in April by labor trouble, and in June by fire, a few days, we could dispose of all the new material coains; in, and i tried as far as possible to knop our daily production corresponding to the supply of raw material. It is recallly to be seen from our daily reports, which reads you corry aftermoon, that during a number of days in June we were very close to running out of raw material; in foot, if we had not slowed down, when our stock of raw material was low, we would have had to shut down our sould have had to shut down our sould have had to shut down our

The record shows, furthermore, that by dividing the total pre-decition per month by the wayting days, we reach an average daily pre-decition of none than 9,000 labs. Onesequently, we will be imposition to raise our monthly production easily to 210,000 labs, and higher at any time when the immonstry membershal allows such higher production, real provided that you may kindly intera me that the higher production is wanted.

Fin april & feece.

17

N. W. PHONE RODIE 43



Farl

200 STATE STREET

ST. PAUL, MINN.,

July 6th. 191

9541

Laboratory of Thomas E.Edison, Orange, N.J.

Attention Mr. Meadoworoft:-

Dear Sirs:-

Your favor of June 26th. at hand and contents noted. In regard to shipments, will say that it will suit us fine to have two shipments of 50 pounds each every month, one shipment at the beginning of the month and one in the third week. We prefer to have the dye shipped by express.

The last 50 pounds of Fur dye we received from you does not work out as well as the first dye received, it seems to be burnt up with Ammonia.

Kindly let us know how to use this dye so we can get good results.

An early reply will be appreciated, we remain,

Yours very truly, WESTERN FUR DRESSING & DYFING WORKS.

selio,

Calle Addenss Milsui, N.S.

MICHS: UH & CO INMED

Hephone 10010. Undison (Mitsui Bussan Kaisha, Ltd.)

TOKIO YOROHAMA YOKOSUKA KOBE NAGABAKI MOJI NAGOYA KUCHINOTZU NIIGATA MILKE WAKAMATSU KARATSU KURE KISHIMA SADEDO MAIZURU

SAPPORO TAIPEH TAINAN CANTON SHANGHAL NEWCHWANG CHOSHUN HARBIN VLAGIVOSTOR

TIELING TIENTSIN CHEFOO HANKOW SWATOW AMOY FOOCHOW TSINGTAU PEKINO

SEOUL CHEMULPO ANTOHKEN KWANCHINTU BANGKOK RANGOON SOURABAIA SYONEY

LONDON намвидо LYON PETROGRAM OALLAS SAN FRANCISCO PORTLAND MANILA SINGAPORE

25 Madison Avenue; July 6, 1916.

Thomas A. Edison, Inc., Orange, N. J.

Attention of Mr. T. H. Measowcroft.

Gentlement-

Kindly allow me to introduce to you my personal friends, Captain H. Uyemura and Mr. H. Ichikawa, who are in charge of the purchase of Automobile Trucks for the Japanese Arsenal.

They wish to be favored with the privilege of seeing your Storage Battery Plant, and I will consider it; of seeing your Storage David, a personal favor if you will kindly give them such privilege.

Yours very faithfully,

July 7th. 1916.

Mr. Dowling:

i am writing this special memorandum in resert to aniline oil for the low York quinine and themical corke, that I want to ask that you will please give it your special attention and instruct all your poonlo to act strictly in accordance thorogith.

The contract with the New York wining and Chemical Works is a large one, and we shall have to be very careful in our efforts to carry it out, as they will return antiline off to us on the clienteet execute.

hr. Edicon himself spont nearly a whole afternoon with .r. schooler the chemist of the Now York unine and Chemicel works, together with ir. Christenson, and between them they crived at a basis on which the willing off will be accontad.

I cont you instructions a day or two upo to only four druns, 1262, 1263, 1264 and 1265 to the Bow York utiline and Chemical Works, Eastern District Terminal, Brooklyn, ... **. 1 procume these have been shipped to them accordingly.

How in regard to further supplies, will you ploses note the following very carefully:

- 1. hr. Christenson understands just what aniline will will be ecceptable. when he has one or more drums that fulfill the conditions, he will notify you and give you the number or numbers of the drum or drume, and will also furnich you with a comple bottle or bottles from these drume.
- 2. Those comple bottles should be shinged, sufely sucked, to low York unine and Chemical works, North lith and Borr, tts., Brooklyn, s. s., for attention of Mr. wheafor. The case day that the bottles are shipped by ourself the chimment of explor a line to ar. schooler notifying him of the chimment of explor and ctating that unless we hear from him to the contrary within five days the drums will be oblayed.
- S. Mr. Girintonson will try to got out the New York wining and Shemical works' anithmo Wil an early as goosthic in the month so that we may make each month's shignout within the month.

Unloss we set strictly in accordance with those instructions. Er. Edicon in foing to cuffer pocuniary loss, and as ho to watching this matter very actively listed? I would suggest that you give it strict and close percent supervision.

U. J. REALOUCEOFT.

July 7th, 1916.

Orreolic acid Division T. A. Edison, Inc.

Donr Sir:

I would magnet that you get in no ministen for this boiler at ence, on I understand the mental is greatly well ever-cold, and there may be some trouble in acting proper delivery.

I would also suggest that in designing the boiler, the call supports in the front of cure chould be so situated that if it tore measure, we could install a placer.

The question of stokers in now up with ir. Edicon and we are uptime questions, and it is not at all improbable that we may add stokers on all boilers in your plant, in order to do away with the blank explor which we have at present.

i. H. M. SOM.

Chemicals Kindly addis there y four on a consurreche to So. Can you refer new 1ther Type to day Sciratific cooks my tracel as avor Invitica Thank you in advants Uceorare.

THE ELYRIA ENAMELED PRODUCTS COMPAN

GLASS ENAMELED APPARATUS

ACID AND ALKALI RESISTANT

ELYRIA, OHIO July 7, 1916.

Thomas A. Fáison, Orange, H. J.

Pear Sir:

We have your favor of the 5th inst. concerning (5-gullon Fril and rouln suy that we could likely and "culm say that we could like , jive on sayment on practically iny swall apparatus within six to seven weeks from receipt of creer and possibly might so a little bit better than this if we had the material for the apparatus in stock.

Ve have sent copy of your letter to our are John Off Wilte, 50 Church Street, Hew York, who would be glad to make an appointment with you to see just hat you need.

Very truly yours,

THE PLANTA PUALIFIED

mrec /Line

SHRIVER & COMPANY

MARKET PRESSES

HYDRAULE PRESSES

HYDRAULE PRESSES

HYDRAULE PRESSES

HARRISON, N.J. July 7, 1816.

HARRISON, N.J. July 7, 1816.

Thomas A. Estion Inf.

Physical Division,

Offenge, II. J.

Oentloom;

Oentloom;

Oentloom;

Offenger, II. J.

Ontloom;

Ontloom;

Ontloom;

Ontloom;

Last year we sold the DuPont Hitrate Company of Vilmington,
Delaware several filter presses which were shipped to one of their archively
South American Plants.

They write us that they had become ded done difficulty in operating the presses satisfactorily and they think the trouble is largely due to the pumps used in forcing the slimes to the filters which pumps may not be the most satisfactory type for hondling this material. We did not supply the pumps.

The following is an excerpt from their letter:

"We think it might be to our great advantage here to observe soveral of the complete installations of your filters, pumps and all - in actual operation and would accordingly request that you kindly advise us of the names and loantions of several establishments where these filters might be viewed at work."

Would you be willing to have their representative visit your plant and see our filter presses in operation? If it would not be screeable to you, do not hesitate to say so.

An early reply would be appreciated as their representative leaves for South America in a few days.

Yours very truly.

(9531)

T. SHRIVER & CO

Mr Marking & Edward approved ұп.ПиоД «КН

EASTMAN KODAK COMPANY ROCHESTER, N.Y.

July 7,1916.

Dear Mr. Meadowcroft.

As we have several proposals before us on Paragidophenol, we are quite anxious to know how your plans, concerning the manufacture of this chemical are progressing. It would be our preference to do business with you on Paramidophenol and we are, therefore, quite interested in knowing how soon you expect to have the finished product ready for the market: what quantities it can be offered in and what the price will be.

Yours truly,

Mr. W.H.Meadowcroft, Laboratory of Thomas A. Edison, Orange, N.J.

Replace 1841

STEIN, HIRSH & COMPANY

SAGO CHEMICALS

SI BROADWAY

NEWYORK,

July 8, 1916.

Mr. Thomas A. Edison, Orange, N. J.

Dear Sir:

In accordance with our conversation with Hr. Meadoworoft we are returning to you the carbolic Acid received from you sometime ago which we have been holding in our warehouse. We have had complaints from time to time from different directions and have lost plaints from the conversation of the conversation plaints from time to time from different directions and have lost considerable business because our buyers are continually telling us considerable business because our buyers are continually telling us the continual telling to the carbolic is not up to standard. We have the continual telling that it is not USF and in the present instance where we delivered & large and 8 small drums and 4 large cans to 20 of act we were informed that the melting point is swen because the continual telling that it is not be according to the continual telling that it is not according to the continual telling that it is the continual telling that it is not according to the continual telling that it was a great misfortume for you to deliver any such quality to us.

Notwithstanding all the complaints of the past we have Norwinstanding all the complaints of the past we have repeatedly insisted with the trade that your carbolis was stender in this market. It is unfortunate for us that we have taken it stand because we now find that all of our statements have been foolish because the actual deliveries as received from you have been nowhere near standard quality.

The above quantity we have ordered shipped to Silver Lake as per your instructions and we shall ship further to-day 68 meals which we don't dare to send out for lear of further trouble and expense.

We are extremely sorry that when Mr. Mason examined this Carbolic sometime ago that he did not make a more careful examination. CHROCALD SOMETIME AND THAT HE WILD NOT MEANS A MOOFE CATEFALL EXEMINATION.
The writer will endeavor to arrange a meeting with Mr. Edison to talk
over this and other matters in the near future and will sak you to
please advise whether next Wednesday or Thursday would be agreeable.

LS/G

July 10th. 1916.

bouloute

Cr. Feramorinoff:

this appropriate is proposed for you to the chimento of terbolic to be note from your plant. It is electeding this momentum with my tromposed on the ecce cabject, addressed to you this deted earli 4th and control of the proposed of the control of ville 15th, 1916, reprectively.

Unlose there are forther orders later on, ; he will placed smally thenel as rollows:

- iontimes around. 5.417 jounds overy 50 days until april, 1917. arise 564 per pound.
- 2. United tates news, 15,602 pounds per month until mil, 3917. rice . 6d or nound.
- Morro Addron, mo., for dec moore Plant, 357 pounds overy day (Anchaling Mandayo) and Al Carther notice. Plant, crocket actual.
- 4. Lit ut ... commany. Contract calls for 25,650 . counte a month for the nomine of carll, any came as only 1916. I am not called three charles of carl of the highest chart caute for sully and three charles of law carls on the carl of months. -he wrice to 70¢ per earl, with reduce of 0¢ per pound, to or instructions in my revisus memorands.
- 5. Mittail & Company. This contract calls for 18,760 pounds of Corbolic acid a month from lay to accounter, 1916, inclination and price is 70g per pound, it is relate of 24 per pound, in accordance with reviews instructions.
- witchi Com say. nother contract for 25,000 pounds each month from July to secondar, 1916, inclusive at 77 1/2¢ per pound. No rebate in this case.
- 7. J. h. otkine Lodical Company, linem., Minh., Sou lounde per month from a ril to Locomber, 1916, price Old for yound.
- 8. J. L. Latting Lodical com ony, Lineas, Ann., addisional Contract for 4.0 cunic for mouth from June to Logomber, 1916, price 000 por nound.
- 9. J. .. satisfine decical Company, Not York City, 100 pounds a month January to Locamor, 1916, inclusive, price det per jound.
- Etrocon-houter & Hancock, lnc., Chicago, Ill., 200 counter port cont from January to Becember, 1916, inclusive. arice 014 per port. pound.

no Ho . Zano. O. OPT.



Laboratory of Thomas A.Edison, Orange, N.J.

Attention Mr. Meadowcroft:-

Dear Sir:-

Have you any Fur Brown to offer either in small quantities or on contract? also quote us your best price on same.

ST. PAUL, MINN...

Hoping to have a favorable reply, we remain,

Yours very truly, WESTERN FUR DRESSING & DYEING

puns

July 11th. 1916.

Amorican Can Company, 447 ...est late. Street, how York City.

Gontlomon:

thin and poor getworking on the shoet from error of which we emphise a margin entire of the shoet from error of which you emplied a large constitute to make a consoler of a graph the shoet of the large framework of the force of the shoet o

to the up as Corbolic and mirror. Then you consider that I making your light of the first mirror. Then you consider that I making you have you will no what this is liable to man, or I am moving a grout dead of his material returned to moon occument of the present control of the party of the latest the liable to moon occument of the present moon of the galvaniang. Midd leaves the iron in touch with the Carbolic held, which becomes telling thereby.

This needs instant attention on your part.

Yours very truly,

BOSTON PHILADELPHIA PROVIDENCE TROY CHICAGO PINCINNATI ROTTERDAM, MOLLA

STEIN, HIRSH & COMPANY

NEWYORK. July 1916, 1916.

Controlic

Mr. Thomas A. Edison,

Orange, N.J.

Dear Sir:-

Owing to some disarrangements in the Heyden factory and in accordance with our contract, we ask you herewith to please discontinue shipments of Phenol to Heyden until they are in a position to resume operations in their salicylic plant.

Bery truly yours,

LS-SF

thou about Contract in the sea of the Ace Hacken of sec of the both of the the sec of the washould store at the contract the same product the same

July 12th. 1916.

Mr. Amery:

In accordance with Mr. Edison's instructions I om giving you below a copy of Mr. Christomeen's achedule of deily requirements of materials for the menufacture of Pera Amido Phonol. This schedule is as follows:

Hitrito of Soda, 225 pounds por day.
Amilino Cil, 264 pounds por day.
Phenol, 264 pounds por day.
Soda ash, 300 pounds por day.
Solt, 100 pounds por day.
Ico. 1,000 pounds por day.
Sodas Data 450 (200) pounds por day.
Zino Dant 450 pounds por day.

The above schedule embraces natorials for an output of 300 pounds of Para Amido Phenol por day.

... H. MEADOWCROFT.

Daily -

300 lbs Culput Paramataplane CARBOARC ACED DIVISION.

Their copy in 2. Frence.

Silvor Lake, H. J., July 12th, 1916.

Ib. Whomas A. Edison.

Subject:

ARRANGEMENT FOR S-0-2 FEREN

Able of the smaller from our belief steels, we have readily to deal with funce of 80-2 grs unerging, when we are nontralising our ThemelI understand that it is apprexive that stops be taken to ant wid of those runes as fur as possible, and boy to subsit the obtached blue grints, line, 62-65-4, and 62-65-6 for your approval.

EMERITY Of Problems. The unknown is to creat a mondom today, A ft. square by 40 ft. 1127, this termy companying out the cause free our come montralizable truthe by may of a wooden pipe to which a blower (driven by oldewide actor), is connected. The wooden pipe and tower would be covered establish by montray pages.

The material meeded for this achieve in the follows:

- 1 Ho. S Baffalo Forgo Co. Blower. (In stock).
- 1 $V_{\rm S}$ H-P Notor, 1050 k.P.M., with Startor. (In stock).
- 15 ft. S-inch Bolting (In stock)
- 1500 Sq. Pt. R. C. Ship Lap.
- 50 lengths 4-in. z 4-in. z 16-ft. Yollow Pino.
- 50 " 2 " x 4 " x 16 ft. "
- 3 Shoots Gulvanized No. 16 36" x 96". (In Stook).
- 8 Rolls of 2-ply Roofing Paper.
- 10 Bage Coment. (In Stock).
- 1 Cd. Ft. Sand (In Stock)
- 2 Cu. Yds. Stone (In Stook).

Shoot No. 2.

Er/ Thomas A. Edison.

July 12th, 1916.

gases will be taken many by the above mentioned thereon, there remain 30-g gases will be taken many by the above mentioned thereon, there remain 30-g gases which are control off with the bedium adultite columns into the words, creasing belows Are, to which brook our plant is connected by an iron pipe. Before this solution receives which we it is excelled around our highly so as to employ the for man of the order of the composite for while on the order off, or the two could are only as the could be offered by running it in our yard in a put 6 ft. doop by 4 ft. against, as shown in around, "GA-SSA. The solution is forced by mans of the plant by bottom of the put, and I expect that by the motion of the vator in the put the grewill be set free, and can be taken many by a second blover which proves the SO-g into mention toward agains by 10 ft. high.

The material needed for this arrangement is as follows:

1 No. 6 Buffalo Forge Co. Blower.

1 75 f-P Dotor, 1050 m.P.H., with Startor.

15 ft. 3" Belting (In Stock).

500 Sq. Ft. of H. C. Ship Lap.

10 longths of 4" x 4" x 16" Yollow Pino.

25 longths of 2" x 4" x 15" " "

25 Shoots Corrugated shoot Iron \$24, 8 ft. long.

3 Shoots Galvanisod #16 36" x 96". (In Stock).

10 Barm of Cement (In Stock.)

1 Ogiois Mard of Sand (In Stock).

2 " " Stone (In Stook).

With the exception of one blower and one meter, almost all the raterial model in 't hunt, and the schuce could be carried out at comparetively law expenses.

I presume that two 10-2 grs overplay from the wooden toward 40 foot from the surface will be carried days in much a district form that the modificationed (2) not be unwayed by it. As it is, at the present time, the 80-g see, predomning under hed manther conditions, then much bundity is in the sir, her a bandway to come along other close to the americae, and is then, o' common, anding detected.

if the engentian mosts with your approval I could start on it right way.

n. wiffyen

Bmcl. 2 Blue Prints Nos. CA-88-A and CA-84-A.

CARROLIC ACID DIVISION.

11/5

Silver Lake, H. J.,

ijr. Thomas A. Edison,

Subject: HITRIC CAME FOR DESCRIPTION OF PHENOLAGE.

To are using Hittle Orden now for moutralising of Themelate almost exclusively. During the moph of June we used for this purpose partly Mittie Cabe and partly Sulphurie idd, and it is, therefore, not possible at present to make a report on this question depending on a longer period. However, I think it cosential to give you seem data at this time before you decide on larger contracts for one for the other kind of ran asterial.

We next with difficulties by using Mitric Cake for the neutralization of Phenolate instead of Sulphuric Acid, which I first thought would be overcome after we get more familiar with it. The disadvantages arising from the consumption of Mitric Cake, that still remain and do not seen to disappear, are serious enough to draw your attention to:

During the process of neutralizing the Hitric Care develops some and which is not heavy enough to separate and fall to the bottom of the Sulphite solution which later foots to the sower. Who and sticks to the Grade Phonol, absorbs a cortain part of it, and it is hard to separate the and from the Grade Phonol readily.

Then the Hitric Calco solution is added to the Phomolate solution, not the sees hoat is generated as is the case when Sulphuric Acid is used. Consequently, the solution consisting of Phomolate and Hitric Cake has a tendency to thicken, and the Crude Phemol then will not separate. If more hoat is applied, for instance, by adding steam or hot water, some less of Phomol is easily created by too much heat.

The amount of voter used with Litric Caim is considerably higher than with Sulphuric Acid. The total volume of one of our standard betches, where we dissolve Italy local to about 6000 liters, if we use Sulphuric Acid, against about 10000 liters if we use Hitric Caim. The additional amount of water involves some loss of Fhemol.

Owing to the heavy dirt which sottles out at the betten from the Hitric Cake, the process of drawing the Phenolate off is quite difficuit, compared with the same process when Sulphuric Asid is used. We experioned that alternately Orade Phonol and Water is drawn off, whilst with the
Sulphuric Acid this never occurs, and we have not been able on far to prevent
this trouble.

If the direct cest of Mitric Cake — about 2.5% por pound of Phenol — against Sulpharia Anid — about 4.5% per pound of Phenol — is compared, there seems to be a saving of 2% per lb. of Phenol by using Mitric Cake. This figure is true as long as a pound of Sulpharia Anid at mood per one pound of P. Phenol. This saving of 2%, however, disappears if the Mitric Cake cases a lose of Crude Phenol, and this is taking place so far. Seem times the Mitric Cake has caused far greater losees, and if we do not encoced in climinating the difficulty, it would appear that it is changer to use Sulpharia Anid for the neutralizing process, even if the price per pound of Yitricl should be commental higher than 1.5%.

We are going to produce semewhat less P. Phonol than during
the last menths as leng as I do not find a way to improve the situation with
the Hitric Cake, and will report to you at once when the cenditions, do

ii. kaleerhoff.

SABLE ADDRESS/STEINHIRSH*AEW STEIN, HIRSH & COMPANY

STARCH DESTRINE OF TARRIUGE TARRIUGE SAGO CHEMICALS JAVA SISAL COMMISSAL COM

61 BROADWAY

NEWYORK, July 12, 1916.

Mr. Thomas A. Edison, Orange, N.J.

Dear Sir:

ut occesion the Ath Inet and must consess that

We have your letter of the

which we are returning to your find the we get the ekterner

We discussed the matter with Mr. Meadoworoft over the phone and he gave us permission to return the shipment.

We wish to state that these shipments have been in our possession since we received same. They have never been opened by possession ennos we received eams. They have never been opened by anyone in our employ. Mr. Macon examined come of the druns out of the druns of the druns out of our possession as they were at the railread dook and the sampling was done in the presense of our representative at the time. The semple was dream from one of your druns which had not been opened before.

It seems to ue that there has been a great laxity in your manufacturing department and we are very sorry indeed to be compelled to tell you this but the facts bear out our criticism.

We request you therefore to take in the two lots and examine same and you will find that they have not been exposed by us to the air but have been keyr in proper storage which your own representative oan substantiate.

We have a number of lettere from various good ouetomere of ours on the quality of the Carbolio which we sent them from time to time of your production and in cach of these letters complaint has been made as to the quality.

It seems to ue that you fail to appreciate that mistakee can ren in your plant. We believe that when you fully consider happen even in your plant. the facte above given you will reconsider your action and examine the goode when they come in.

Mr. Thomas A. Edison/#2

we have never had any intention of taking advantage of you or anyone else and it seems to us considering the tractment which we have accorded you last year where we must of money that our actions amount of money that our actions we are not in the habit of taking advantage of anyone and certainly not of you.

If the drums of Carbolic had left our possession at any time it might be a different story but as stated above we have been at all times in possession of these drums and the sample drawn was drawn under our supervision when the goods reached Perth Amboy.

It was a great misfortune to us that the carbolic in question should have been poor because it meant a large order had we been able to deliver the proper goods.

We trust you will reconsider the matter and let us hear from you at once.

Yours very truly.

LS/G



RK (540)
July-12, 1916.

EXECUTIVE OFFICE

Thos. A. Edison, Inc., Orango, New Jorsey.

Gentlemen: -

Attention Er. Vm. H. Headowcraft.

In pursuance of yesterday's conversation, we are returning by Eric Reilroad the 40 drums of rejected carbelic acid. Upon reesipt of bills of lading, we will ask you to kindly hand us your check for the value of these returned goods.

We undorstand that you are to ship us at once 1 of your large 110 gallon galvanized drums of carbolic acid, which we are to tost and roport on to you with a view of accertaining whether these galvanized drums will eliminate the difficulties experienced heretofore on account of the containors darkening the acid. This drum of acid is to be billed to up at 55% per pound.

We have, up to the procent, used mothing but the Edison acid and would very much like to feel that we can entirely roly upon you as our source of supply for this product. We must, however, be in a position to compete in the market on an article of this nature, as you will readily appreciate, and should future conditions bring about a drop in the market price, we would want to feel that you will protect us by reducing your price correspondingly. Failing to do this, of course, we will have to buy our supplies where they can be most advantageously obtained. We trust that you will see your way clear to follow the market of seven of the process of the continue our connections with your own good selves and market only the Edison acid.

Wo understand that in future you will ship via Wright and Cobb (Boat and Transportation Line) from Hewark, which we understand

has a station at the other and in Brooklyn, from which we can truck direct to the laboratories, thus eliminating all delay in receipt of shipments. We are very glad that this method has been settled upon as it should entirely eliminate the difficulty that we have experishound in the mast through delayed shipments.

I wish to assure you of my appreciation of the fair spirit that has been so clearly shown in the handling of this situation and also to assure you of our absolute confidence that all those difficulties can be easily eliminated in the future with some attention and with great mutual satisfaction.

Very truly yo

CHP: K

President.

GENERAL ELECTRIC COMPANY
PRINCIPAL OFFICE
SCHENECTADY, N. Y.

In Reply Refer t

Cambria

Schenectady, s.Y. suly 12th, 1916.

Mr. W.H.Meadoworoit, Sec'y Thomas M. Edison Laboratory, Orange, n.J.

Dear Mr. Meadoworost:-

In response to your letter or the both inst., will say that I have just seen Dr. Whitney, the pirector of our Research Laboratory in the matter of ne told me that your letter about same nad Cumerone. been duly received, but that as he did not know or any purchase of the material by the General Electric Company, So he had passed your letter on to our Testing Laboratory, Furchasing Depit, etc. and thought that it had seen properly attended to. He regrets that no reply was sent to Ar. Edison but thinks that your letter may still be circulating around among our departments in the different Works or the Company in order to rind out where the Cumerone is used and for what it is employed. the person who incormed you that we were buying the residue or the napthas from the Cambria Steel Company's Benzol plant may he able to give you more speciaio information as to which of the works of the General Electric Company is using it.

It is pretty certain that it cannot be used in Schenectady Works, at least not under

GENERAL ELECTRIC COMPANY

the name of <u>Gumerone</u>, or Dr. Whitney and our Furchasing Dep't would know something about it.

With kind regards and best

wishes, i remain

lours very truly,

M. J. Hudrew

CONSULTING KNGINERRING DEP'T

WSA:BDR.

EXECUTIVE OFFICE

Orango, How Jorsey.

Gentlemen: -

Attention Hr. Vm. H. Headowcraft.

We will shortly require about 10,000 gallons of Bonsol for a special process in conjunction with the purification of cor tain Grugs. The Bengel must be absolutely C. P. as we intend to use it as a solvent. It occurred to mo that as you must have large contracts, we might be able to either buy from you direct or obtain an advantagoous quotation, the Bonsol to be plant in carload lots, either in tank cars or in barrels is preferable, at our siding at New Brunswick, E. J., which is on the Raritan Rivor Railroad. If you could make us a quotation I wish you delivery in carload lots at Now Brunswick, N. J. on our own siding.

Assuring you of our appreciation of anything you may be able to do for us in this matter, we beg to

General Sunger we use all the Burger we can get from our good of Contracts, The purest Beneral was confus the sunder the

ben big

July 14th. 1916.

Hr. John Bacon, Jr., Edison Benzol Plant, Johnstown, Pa.

lear Mr. Bacon:

iir. Edison learned from iir. imson that you had stated that the Carbita Stoel Company were selling the residue from their Selvent kephtha to the General Meetric Comeny, and that they were uning it for obtaining the cumerone contents.

find out the facts if possible, and it the Cambria Stool Company is colling that reciduo to the General Libertic Company, you might file out which plant it is chipped to, on the General Libertic Company, where the company have cutte a number of plants.

Yours vory truly,

acsistant to Mr. Edison.

Enclosure.

July 14th . 1916 .

Western Fur Dressing & Dyoing Works, 266 State Street, St. Poul. Minn.

Gentlomen:

Your favor of the sixth instant was received, and we regret to learn that the last fifty pounds of carephonylenedicanine did not tork out quite as well as the first lot received. We have brought this to the attention of our manufacturing plant, and have requested them to be very careful about maintaining our quality, which, up to t is time has been found quite uniform by a large number of fur dyers whom we have been supplying. There is no emmonia used in the process.

I am sorry that we cannot give you any formulae showing how to use the exceptosylesediamine. We have never made any experiments in dyoin 'Qure, and really have no knowledge of the business oursolfes.

How in regard to your inquiry of the 10th instant as to fur brown, let me say that we have just started our factory, and in about two weeks expect to have this material for delivery. Its proper name is Para Amido Phenol. We have made errangements with the american Oil & Supply Company, 92 billiam Street, New York City to do all the distributing of Para Amido Phenol. We have written them to quote you a price.

Yours very truly.

American Oil & Supply Co.

Oils, Greases, Acids. Chemicals

52-54-56 Lafayette Street

Newark, N.J. July 14th, 1916.

Mr. Thos. A. Edison,

Orange, N. J. Dear Sir:-

Mr. W. H. Mesdowcroft.

Will you please enter our order for 750 lbs. of Pers Andio Fhenol, Hydrochlorats. This is for the Eastmen Kodak Co., and we have been given to understand that shipment will be ready for delivery not later than August First.

Kindly send it to us at the earliest possible moment and we will forward from here.

Yours sincerely,

American Oil & Supply Co.,

CRB/T

-C. Bunker

911 Edesen a definite Here is a definite order. Necessary

nb/ 1

AMERICAN CAN COMPANY

Atlantic District

447 West Fourteenth Street

New York

Contotie

C. Macparlane Assistant District Sales Manager

July 14th, 1916.

Thomas A. Edison, Orange, N. J.

ATT. MR. MEADOWCROFT.

Dear Sir:-

We duly received your letter of the 11th inst., about Galvanized Iron Druss for Carbolio Acid. We referred the letter to Mr. Phelan, our Newark, M. J. Sales Manager and sactory Superintendent, with request that he take up the metter personally with Mr. Meadoworoft. We are confident that together you can determine what will be entirely satisfactory for your requirements in this line.

(ours very truly

CM/CL

Allers "Edisons Sinterk"

Trom theLaboratory Thomas A. Edison,

Orange, N.J. July 14, 1916.

Messrs. Stein, Hirsh & Cc., 61 Broadway, New York City.

Gentlemen:

I have received your letter dated July 11, 1916 in which you request that "in accordance with our contract" I discontinue shipments of phenol to Heyden. I am unable to understand this request as you do not offer any explanation as to may the shipments should be discontinued, nor for how long, nor how your recording your request with the provisions of the contract.

Will you kindly inform me upon this points without delay and greatly oblice.

want go rang on him. Yours very truly,

lours of 11th july at hand—
los have a very limited Capacity for clorage x ban you at ale how long was well have to olors the Canadia?

July 15th. 1916.

Mosers. Stein, Hirsh & Company, 61 Broadway, New York City.

Gentlomen:

Your favor of the 11th of July, 1916 at hand. We have a very limited coracity for storage. Can you state how long we will have to store the Carbolie?

Yours very truly,

July 75th. 1916.

E. A. Squibb & Bons, 78 Bookman street, now York City. <u>Attention of Er. Polmer</u>.

Gontlomen:

Your favor of the 15th instant in regard to Benzel has been received. I chowed it to in Edicon, and he wishes no to inform you that we use all the lensel we can get from our plants and under other contracts which we have made.

Gas company, thich it centrolled by isoade & Company, thich it centrolled by isoade & Company, lincases & Useda & Troots, low York City. Mr. Claroneo Millon is the gentleman at Heerre. I. . . Heede & Company't, who has charge of Benedi matters. I. . . Heer is not think that they have come Benedi that they have come Benedi that they have come Benedi that they have come Benedi that they have come Benedi that they have come Benedic that they have come Benedic that they have come Benedic that they have come Benedic that they have come Benedic that they have come Benedic that they have come Benedic that they have come Benedic that they have come Benedic that they have come Benedic that they have come Benedic that they have come Benedic that they have come Benedic that they have come Benedic that they have come Benedic that they have come Benedic that they have come Benedic that they have a contract with the Benedic that the Benedi

If you cannot get any Bonnol from them, and are compolic to buy from Barrott insurfacturing Company, and if the Bonnol is not sufficiently pure, we have a still at our filter lake corks end could re-destill it for you. Who expense is not great Occasionally some of the Bonnol we receive is so bed that we have to re-distill it for our orn purposes.

Yours vory truly.

Assistant to ir. Edison.

July 17th. 1916.

Hon. Goorgo Otis Smith, Biroctor, Popartment of the Interior, United : tates Goological Survey, Smithgton, . . C.

Dear ig. Smith:

I im corry there has been such delay in furnishing you with the information in regard to Benzel, etc., made
by the two Edison Benzel Flants. ... have all been so overwholmingly busy that it has not been very well possible to
furnish it before this time.

I take pleasure in hunding you herewith two cards in which the figures have been filled in relating to the products at Mr. Edison's Bonnel Plants at Johnstonn, Mr., and boodward, Als., and trust the information given thereon will be what is decired.

Yours vory truly,

Assistant to Mr. Edison.

Enclosures.



Nordward W.S.

University, Ma.,

Dear Sir:-

The United States Geological Survey and the Alabama Geological Survey are co-operating in collecting statistics of mineral production in Alabama. This co-operative arrangement has been made to avoid duplication of work by the operator, who heretofore has been requested to fill out similar blank forms for both surveys.

As in the past, the information received will be held confidential and published only in State and County totals. The output of individual operators will not be made known.

Very respectfully,

Medical we will with the the Goologist.

1

DUPLICATE FOR YOUR FILES. DO NOT RETURN TO GEOLOGICAL SURVEY.

No	CONFIDENTIAL.	BY-PRODUCTS OBTAINED.
DEPARTMENT OF THE INTERIOR UNITED STATES GEOLOGICAL SURVEY		(Value reported aboutd to value at the works envisely of solding expenses. Value of product not odd should be estimated at average for product sold or upon extinated prices that sugai have been realized.)
PRODUCTION OF	COKE AND BY-PRODUCTS	Production, Value at works. Gallens.
IN BY-PRODUCT OVENS-1916.		Tar \$
Picase fill out replies to the following queries and return as promptly as possible in the inclosed emelope, which requires no postage. All replies are held confidential, individual figures not		Austronia: Sulphale Galleas,
	iomas a. Edison	(or report as) Possuls.
Address	Orange n.g.	NH ₂
Name of works //oc	edevard From 60	Gas produced X X X X X
Location of works: Town,	Noodward	One used in process X X X X X
sine Habama	Connly	Gas wasted X X X X X
Total number of orens in e	vistence Decem-	Surpline gas sold or used: (If possible, please state approximately the purpose for which the
Kind of orens in existence		"surplus" gas was used and its velue at the works.) Cable test.
Total number of orens in struction December 31, 19	course of con-	tiluminaling
Kind of oreus building		Domestic fuel
	le entire year	Industrial fuel
Number of ovens dismanti permanently abundoned	ed or otherwise	Benzol products: Gallons.
	Net loos, Value at overs,	Crude light of
Coal charged into ovens:		Secondary light oil
Run of units unwashed	\$	Benzot 432.576 a 60 \$259.545.60
		Tolstol 50. 500 A 52.11 110,000.00
Stock unwashed		Selvent naphths 22.119 4 .17" 3.760. 2
Sinck washed		Naphilhalene & 308.983 4 .084 24.718.6
Total charged \$		Net Ions.
Does quantity of washed coal represent the weight before or after washing?		Coke breeze
If before, what is the overage percentage of boss in washing?		Other products (exclusive of coke)
	Not tens. Value at ovens.	Total value of by- products
		Please give source of cost used:
Coke produced	······ \$ ·······	
Value reported should be value of the works exclusive of selling expenses. Volue of product not said should be estimated at overage for product said or upon estimated prices that might have been resilied. [OVERA]		Mave no and information on this point.

THOMAS A. EDISON'S BENZOL PLANT AT WOODWARD IRON OO. WOODWARD, ALA.

BY - PRODUCTS OBTAINED

to December 31st, 1915.

Bensol obtained and sold, 129,939 at 60\$\frac{1}{2}\$ \pi77,963.40.

Other products (exclusive of coke).

O. P. Toluol 16,826 at \pi.18 = \pi56,590.68

Selvent Maphtha, 5,761 at 25\$\frac{1}{2}\$ = 1,440.25

Maphthaline, 37,959 pounds at 8\$\frac{1}{2}\$ = 3,036.72

Total value of by-products.....\pi18.031.05

Please give name of coal used in ovens: Have no exact information on this point. (Haluma with m Edina

In Edward It you are going to Stay in the Chimical Bufgs at Solven Fra & thene we should have a chemist then who can Experiment - figur + Check vanous products aste quality to Too much depends on the house and he has too much to do to hough it Propuly - I will also writ Some one to help they must to one Volash Experient - Losses on Phenos 4c - Bachman well Lit Elias go if you can gon him another man you could never much

WHMason.

CARBOLIC ACID DIVISION.

Silvor Loke, N. J., July 18th, 1916.

Mr. Thomas A. Edison.

Subject: CHAMBER ACID FOR NEUTRALIZING PROCESS.

Mr. Emery informs me over the telephone thie merning that you want us to use Chumber Acid for neutralizing Phenolate, and not Acid of 90%. The reason why I have caked for more 80% Chiphuric Acid, and not Chumber Acid, is this:

The have used in the months of Herch, April and May Charles Acid which we received from the Aniline Division, the Chamber Acid being of Chaut 1660 specific gravity, corresponding with 75.71%, or 57.4° be'. One liter of this Chamber Acid contains 1225 graces of Hg504, whilst Dalpharic Acid of 90%, or 66° be', or 1861 opecific gravity, contains 1808 graces of Hg504 por liter. We redd during the last months per pound of 98% Sulphuric Acid, as an average, 1.37%. Therefore, the Chamber Acid containing 32% loss light in the Sulphuric Acid of 98% ought to have cost 0.95% per pound, who have, however, in fact, paid 1.57% per pound, which monus on extra expresse of 0.64%, or 66% more than we should have poid. This being the situation, I was under the impression that it is more difficult to get Chamber Acid at present them Sulphuric Acid of 96%, and consequently I have calculated the Parchasing Dept. to provide us with more 98% Sulphuric Acid, and not with Members Acid.

H. KALIMERUJA

GENERAL ELECTRIC COMPANY PRINCIPAL OFFICE SCHENECTADY, N. Y.

in Reply Refer to

bandica

Schenectady, F.Y., July 18th, 1916.

Mr. Thomas A. Edison, orange, E. J.

Dear Sir: -

In reply to your letter of June 8th relative to whether or not we are interested in Cumerone, would state that I have canvassed the various works in the company and find that we know of no place at present where this material is used or where it is likely to be used.

Very truly yours,

J. A. CAPP.

CHIEF OF THE TESTING LABORATORY,

J.a. Shiel

FAH/LHZ

M Edward To Bacon It wish of the work of t

HADJOPOULOS & SPERCO, INC.

GENERAL COMMISSION AGENTS

"HADJOPULOS NEW YORK TELEPHONE 6570 RECTOR ESSES 6571

29 Broadway

NEW YORK

"WIEGERS" BLITZ CODE, 1908 ED. A.B.C. 514 EDITION LIEBER'S, J.K.ARMSDY COS.

Edison Company, Orange, II.J.

Gentlemen.

My Just 1804 18916

For your valued address we are indebted to the Department of Commerce at Washington and we beg to state that we are interested in large quantities of



and other coal tar products.

Please let us have your prices fob steamer New York, stating quantities you can furnish and for what shipments.

We have done a very large business with the above items with other large concerns on this market.

Awaiting your early advices, we remain,

Yours very truly.

DBH/CED.



HADJOPOULOS & SPERCO, Inc.

Muly 20th. 1916.

Mr. Edison:

Referring to the attached letter I think you will agree with me that these people are simply brokers and write around to everybody for prices on the various items they mention. This is the concern to whom Mr. Hoffman sold that car of Hephtheline which went out to the Pacific Coast. As you will remember, we settled our differences with them by arbitration. They were in the right, as our stuff had turned yellow, so, of course, there should be no prejudice against them on that account.

If you authorize me to quote them, I would suggest Amiline Oil at 40\(f). Amiline Salt at 55\(f). Rephthaline at 9\(f) and Carbolio Acid at 57\(f) or 58\(f). all \(f \). o. b. Silver Lake, except the Nephthaline which would be \(F \). O. B. Woodward, Als.

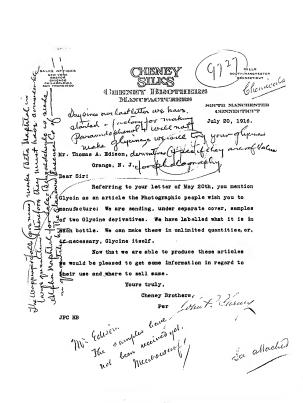
MEADOWCROFF.

r till

OK quoti above

"Beware of the Greek although

Sampled + tested at works - so no after claims -



at Haydons w + Credit given on new thenal Here & lienol is to be double divilled NLP 39- WE to Levenich Stillwella 45 ... Contespente for Ench ! at allerate also furnite Stein a deplicate Sample - Heyden forpation of Stempe land is to to to the softer il Killed Cottainon In additional Heart las is to to have the credit given con act though



Canadian ExplosivesLigh

SUBJECT

out of Make some feet

Thomas A. Edison Laboratory,

Orange, N.J.

Dee Hoffman of the

Dear Sir:-

Our File ON-12. In reply to your letter of

July 18th re 3000 gallons foluol, we beg to advise that at the present time we are fully covered for our requirements, and are consequently not interested in your offer of above date.

Yours truly,

CANADIAN EXPLOSIVES LIMITED.

Themical Division.

JBB/IA.

This can be you for another your make a force of the another your for another your for make the force of the another of the an KEITH CAR COMPANY PROPLEM GAN BUILDING CHICAGO Er. Thos. A. Adison, Urange, E. J.

Dear Sir:-

Referring to Contract No. 111 which expires at the end of August 1916.

.s this time is only about forty days away, we would be glad to know if you would like to use this car for another year. Owing to the advance in steel and other conditions concerning tank car operation, we are obliged to increase our rentar to all of our old customers, and the rental price for 5,000 gallon cars on a one year basis is \$40.00 per car nor month, mileuse being credited to the lesse, repairs taken cure of by omners.

As the fall contracts are now being made, we would be very glad to know if your business is such that you desire to continue the use of this car, or if you have decided to return it

However a property of the way of the property to us. Yours truly,

Claudio Vidal

Calle Stddress "Yidaleo" Telephones Bread 6846

Exporter, Importer, Commission Agent

23,8:25 Beaver Arect

Wastern Union sl.B.C.5 Cdillion

New York July 22nd, 1916.

Thos. A. Edison, Inc., Orange, N. J.

Gentlemen:

I would be pleased to have you quote me your best price covering prime quality Amiline Cil, on contract, shipments from January to June 1917, quantity Five Thousand (5,000) Kilos, monthly.

Quotation should be on the basis of delivery f.a.s. Steamer New York City, and a liberal sample of the oil you propose to furnish, should accompany the offer.

Thanking you in advance for a reply at your earliest convenience, I beg to remain,

Very truly yours.

CLAUDIO VIDAL Pall

Day that it is doubtful five will remain in Eureness effection, Juill remain in Eureness effection, Ambien after Dre 31 = WE however can supply 10 coo lbs however can supply 10 coo lbs however water Jamy 1917 noutty water 38 dents

Mr. Amery:

Your momorandum of the 22nd instant in regard to Johnstown and .ood-ward Flants has been received. ir. Ediann has authorized me to cond you copies of the contracts relating to those two plants.

The one covering the Johnstown Plant consists of a letter dated Jonuary 18th, 1915, addressed by \ker . Edison to the Cambria itsel Company, and accorded at the foot by thom.

The woodward contract consists of a regular agreement indo between ir. Edicon and the loodward Iron Company, dated larch 15, 1915. ir. Edicon has a perton in the loodward enterprise. This partner is listent & Company, Limited, and I also send you herewith copy of the agreement between that concern and ir. Editors.

I have no record of the contract obligations for rental, light, heat, power, water or steems. Er. H. I. Filler and Er. Encon know the details about all these.

reports. We have been so the gleate to cond you copies of their delly reports. We have being Department will be interested only in the Bonrol, on the other 1300 lites are disposed of from this office by me under Er. Bileon's personal directions.

An to Bennel from the Johnstown Flant, it is all shipped to illver late a metter of course, as the plant solongs to in. Editon percently and outrely. As to the product of the conduct Flant, including Bonnel, the sale of the course flant, including Bonnel, the sale of th

as to manufacturing schedule, it is very simple. They make all they can.

In regard to our requirements, thin has been a settled matter for a long time past. Mr. Editor logued a number of care for Bennel, and a cortain number was put in cervice for each of the plants from which we get Bennel. The experiences of the past year or more her proven that to have about the right mamber of ears in service. I think that you will not need to change this in any way. The our arrangement has been working automatically and catterfactorily for a long time push.

AMERICAN CAN COMPANY MC WHORTER & JOHNSON STS.

W. A. PHBLAN LOCAL SALEH MANAGER NEWARK, N. J.

July 24th, 1916.

Thos. A. Edison, Inc., West Orange,

Edison, Ino.,

Drange.

H. J.

ATTENTION OF MR. MEADOTROFF:

We are forwarding to you four (4) of the 240 11

Market Ma

Gentlemen:

Drums made from Tin Plate.

Those marked #1 and #2 are made from 28 gauge Tin Plate, which is the same gauge as the material now used in the Galv. Iron Drums and the coating of same is what is known as Coke Surface.

The Drum marked #3 is made from 26 gauge Plate, which is heavier than the present Drums and is the same surface coating as those marked #1 and #2.

The one marked #4 is made from 26 gauge also, but is what is known as Charcoal Surface Coating. This is a heavier coating of Tin than on any of the others and is, of course, correspondingly more expensive.

We would like you to give these Drums a thorough test and see if any of them show signs of defects.

We intend making up some of the Galv. Iron Drums without swedges, and also with the seam grooved on the outside, so as to see if the oracking of the coating can be kept away from the inside of the package. These we will forward to the Silver Lake Plant the first copportunity that we get.

Yours very truly Thelaw Supt.

July 25th . 1916.

Chency Brothers, South Manchester, Conn.

Sentlemen:

Your favor of the 20th instant has been received by me, and I would say in reply that since my last letter we have installed and started a factory for making three Amide Phonol. Phonorfore, I do not expect to make Glycine. On receipt of the samples, we will try your Glycine derivatives and see if they are of value for photography.

I understand that ir. Meadowerest wrote to you yesterday stating that the samples have not been received and asking you to send duplicates. When he receives them he will bring them to my attention at once.

The Stendard antline c Products Company of Maypringer Falls, Mer York make Beta Maghthol in large quantities, and, therefore, they must have a considerable quantity of alpha Maghthol for cale. Bennaldshyde is now being made in quantity by the Standard E.so.oc Company of Maymood, M. J.

Yours very truly, .

July 25, 1916.



Mr. a. A. Drew, Propident, Forest Hill Protective Association, 550 Parker St., Hewark, H. J.

Doar Sir:

Replying to your favor of July Lith. We have acroed to erect a third absorbing tower of sufficient caracity to take care of all fuscon produced in the manufacture of active meterial for the Maison attorned bettery. Interials for this tower have been ordered and work on the tower will begin this week and we expect to have the sume finished and in operation within a very few weeks, modulity before outcomer let.

As regards the automatic stater and smalls consumer, its lines states that his promise was to histal of they as automatic stater or a smalls consumer. To tester of fact, we have let the construct for entermits a claim and we believe we will have then in operation very considerably before the close of the four months period which we thought would be necessary. These croture are designed to come the coal before it reaches the prate and in a broad cense affect to come stdered as combined automatic stakers and mode consumers. These others will seet us at least \$2,000, which fact I hepe will convince you of our sincerity when we state that we desire to most the wishes of your Association.

to have been burning hard coal mixed with an equal amount of soft coal for about a week and have already consumed 100 tens of hard coal but without any apparent beneficial result due to the fact that it has been necessary to force the furneces in order to get the same heat as before owing to the fact that the hard coal doos not develop as much heat ordinarily as soft scal. We are expecting the non-smoking soft coal every day, and will begin using same as soon as it arrives and believe to should be able to reduce the uncks now complained of.

Er. Mauen does not recall that we promised to abandon the settling tanks or sumps and the open ditch. To have, however, climinated from this ditch everything except pure vater used for cooling purposes and which contains no chemicals, and the use of the open settling tanks has been abandoned although it may be necessary to use thow in an emergency in case the sever should becaus blocked. He is not quite sure what settling tanks you refer to.

Mr. Mason enderses your remarks with respect to the character of bonzel.

As regards Mr. Edicon's activities after the war, t do not recollect that Mr. Maison stated definitely or positively that he would discontinue the manufacture of the chamicals which began during the war, but stated that he did not expect that he would be able to carry on this business after the war for commortial respons.

We should be glad to have your Mealth Countition continue to make faspections of the plant from time to two to one what progress to being made in our endeavor to improve conditions. The only thing necessary is for you to communicate with Mr. Mason, provided, of course, the Committee consists of the same members as at the time of the first impostion.

Yours very truly.

July 26th. 1916.

lir. Cleudio Vidal, 25 Boavor Stroot, Now York City.

Dear Sir:

Your favor of the 22nd instant has been received. In reply lot me say that it is comewhat doubtful whether we will remain in the business of making Antline Oil after December 31st of this year. However, we are in a position at this writing to contract for the supply of 10,000 pounds of Aniline wil monthly until December 31st, 1916. I am in a position to enote you 38¢ per pound, F. O. B. Silver Lake, H. J., drums 310.00 extra.

This quotation is made subject to provious sale.

Yours very truly,

Edison Laboratory.

CRYSTAL HOSIERY MILLS Co.,

NANUPACTURBES OF

FINE SEAMLESS HOSIERY

YORK, PA., July 38, 1918.

Thomas A. Edison, Orange, H. S. Dear Sir:- 9865

The mish you would kindly hold up shipments of Andline oil for dext agents and and the get in shape to take more of this lyodnot in abode. To are locally non with several lumbs and we have no place to stock this, besides not having use for this amount, one of our outcomes through when we test to live has get in a plact and tike subset outself the use of Andline and to the mill kindly and you so with-hold dispayable

JALITE The wife and hear weelf land it wife and hear weelf

MICHSTUL & CO THAUGED

Relightone 10010. Underen Se (Mitsui Bussan Kaisha; Std.)

YOROHAMA YOKOSUKA KOBE NAGASAKI MOUL NAGOYA VUCHINGTZU

NIIGATA

TSURUGA

Calle Address

· . Milsui, N.V.

міікь WAXAMATSU KARATSU KURE KISHIMA SASEBO MAIZURI MURORAN AWOMORI MIYAKO BUNAGAWA

OTABU TAIRPH TAINAN CANTON HONG KON SHANGHAI HEWCHWANG DALNY TIELING TIENTSIN CHEFOO HANKOW SWATOW AMOY FOOCHOW TSINGTAU-

HOUNDEN SEOUL CHEMULPO ANTOHKEN KWANCHINTU RANGOON SOURABAIA GALCUTTA SYONEY

HAMBURG LYON PETROGRAD DALLAS SAN FRAN PORTLAND ROMBAY SINGAPORE

25. Madison Shound July 26, 19/6.

Mr. W. H. Meadoworoft, Thos. A. Edison Inc., Orange, N.J.

Dear Mr. Meadowcroft:

beg to give you the following facts:

Referring to our telephone conversation we

Amount shipped to Heroules Powder Co. so far - 46,021.5 gals. The above means that we delivered them 120 gals.

per day for 383-1/2 days beginning with June 25, 1915, or in other words, we delivered 120 gallons per day up to July 11,

1916. The next tank oar, or 8,160 gallons must be shipped from Woodward on September 17, 1916.

On the 31st of July we had 3,644 gals. C.P. Tolucl in tank at Woodward, and on the 25th of June when we shipped 8,095 gals. to Hercules there was left in the tank there 1,264 gals., and this means that between June 25th and July 21st the Woodward Plant produced only 2400 gals. which is at the rate of 92 gallons per day.

The best thing we can do now is to implore

you to send a eepy of this letter of ours to Mr. Opdyke or Mr. Mason and let them ship to Mr. Edison the excess quantity above 8,160 gallons to be shipped on the 17th of September. However, you must also be careful about accertaining from Mr. Opdyke or Mr. Meson if the Plant can produce 120 gals. per day from September 17th so that we will not fell down on the deliveryfor Hercules contract on the following tank car shipments.

Trusting that you will take the proper action after consulting with Mr. Opdyke on basis of the figures mentioned in this letter of ours, and with kind regards,

Very truly yours,

ST/KN.

CORNING GLASS WORKS CORNING, N.Y. July 27, 1916 Thomas A. Edison Laboratory, Orenge, H. J. Gentlemen: -Attention William H. Moadowcroft We desire to apologize for the delay in replying to your favor of July 17th with reference to furnishing you bulbs of heat-resisting quality, capacity approximately 17 gallons, but it has been necessary for us to investigate this matter very thoroughly before giving you a definite answer. The mould from which the original bulb was made has been destroyed. We are endeavoring to obtain all the nocessary data as to the cost of new mould, cost of complete bulb and time of delivery. We will undoubtedly have this complete information by the first of the woek at which time we hope to be ablo to write you fully. Regretting the lone delay, and trusting you are not being greatly inconvenionced by same, we remain Very truly yours, Sales Department. CORNING GLASS WORKS.

AJM/H

GENERAL ELECTRIC COMPANY

PRINCIPAL OFFICE SCHENECTADY, N. Y. 1916. Chemicals

Carbolic

Please make separate reply to this inquiry.

Thos. E. Edison To you mean Real Carbolic acid or what is Known, Kindly quote us by Yeturn be delivered F.O.B. Scheneotady, II. 800 gallons Carbolic Acid 97 to 99%. quotation on their Schenectady. Delivery required at destination: O State what delivery you can make. at Quotations to be complete should include net and eash discount in 15 days. Charges for packages will not be allowed.unless mentioned in quotation and accepted by us, Yours truly, PURCHASING DEPARTMENT.

JRB:MEG

BUYER,

J. R. BOTMAN

PD-88-1 15m 3-6-16

July 29th. 1916.

Gonoral Electric Company, Schenootady, H. Y.

Gontlemon:

doel bE

gro salions Osmbolid

drote

be delivered F.O.B.

attention of the J. h. Bowmen.

I cm in receipt of your request for quot tion on 800 gallons Carbolic Acid, liquid orude, etraw color, 97 to 995.

Do you mean real Carbolic hold or that it known commorphishing as "Carbolic held Miquid", thin is a mixture of Crocylic hold. This is cold by the Berrott Hamifacturing Company at about 12% per pound. It is called Carbolic, but does not contain my real Carbolic held.

If you want the real Cerbolic acid, or 1 enol, crystals, but liquid when 65 water is added, to could furnish it as a colid crystallino mass at 584 per pound, 7. 0. 8. Silver Leke, H. J., drume extra.

Yours very truly,

Lr. Thomas A. Edison.

DISPLEMENT OF PRESIDE

Silver Lake, H. J., July 28th, 1916.

Subject:

1.

2.

In compliance with your wishes, I want ever to-day to see Messre, known and Dally, regarding the question of distilling P. Phonel of a high solidifying point.

After looking over the stills in Phomol Plant No. 2, I think that with a few changes the method of distilling can be made just as satisfactory as no have it in our plant. The changes involve very little expenses, but will enable the operator to more closely watch the stills and be less dependent on the varying conditions of steam pressure and vacuum pumps. I rould suggest that the following items be taken in consideration, all of which, with the exception of the last one, I have talked ever in detail with Toosars. These and Dally.

Simple moreoury vacuum gauges (we have made then courselves) should be installed in the neighborhood of the Phenol discharge pipe commoning the lattle with the condensor. Zhone gauges are dependable under all circumstances, and at the name time enable us to control the normal kind of gauges which are very often out of order.

It is very important that the relation between the temperature of the escaping Phenel vapors and the vacuum be determined and a tainula be made up according to which the operator has to operate his still. Whilst we are changing over from vacuum heads to P. Phenel, for instance, at 126° C., if the vacuum is 25 inches, we emitch ever at a vacuum of 28 inches when the thermometer is only 108° C. These relations are slightly different at different stills, and must, therefore, be determined in practical use. 5.

 Zho column pipe, currying the Phenel vapers to the condenser, chemid be made three or four foot longer, so that the Phenel vapers have a longer way in which to separate from water and inquirities.

4. The condensing coils, which are now arranged in parallel, chould be connected in series, as this will create a more uniform temperature and a botter regulation.

All Phonol should be distilled twice. Monor over distilling our Grade Phonol once only, we obtained without difficulty solidifying points up to 40.5, but the second distillation makes ourse that impurities are omitted, and that the solidifying point is solden below 40. Hererding impurities, it must not be forgetten that Grade Phonol without exception leaves quite some residue in the kettle, and that small particles of this residue are easily carried ever to the receiving track tions suddenly the vicuous becomes higher, or the temperature rises with changing stems pressure. This danger of petting impurities into the F. Phonol is positively excluded it the once distilled Phonol is put into the kettle, as practically no residue then will remain.

Ome in which P. Phonol is to be shipped should be scaled, i.e., scaldored, immediately after they are filled. We have formortly closed our shipping case temperarily by wooden plups, but did not find this safe in case the croft in the building gots leaking, or in case the case are carelessly headled.

Under certain circumstances a perfectly distilled batch of P. Fhenol can be spoiled by getting water into it, as follows:

It constince happens that the vacuum pump gots out of order and loses its vacuum rapidly. The air, under atmospheric pressure, then enters the pump, whilst the receiving tank, being filled more or loss with P. Phonol, a still under vacuum. The result is that part of the water in the pump and

pages is suched back into the receiving tents. To east this danger we are running our stills since over a year with a modell true, consisting of a 110-cilon simple stool berrel. This true is switched in between the phoned receiving tents and vacuum pump. The true takes care of much vator as might be sucked back in case of an accident as described above. Desides this, however, the true acts as a catcher for those Themel vapors, which otherwise are enacted over into the pump and got lost. We ought these trues neverally once a week, and always that some Phonel In them.

I have also advised Lesurs. Easen and pally to send their operator over to us and let him watch our men, as it depends to a large extent on the skill of the operator whether he works his still with the highest efficiency possible or not.

1.J.

ANILINE DIVISION THOMAS A. EDISON SILVER LAKE, N. J.

Para

July 28, 1916.

Mr. Thomas A. Edison:-

Your note of the 26th expressing your willing ness to increase wages to increase output of Paraphenylendiamine has had our attention, as I adviced you werbally.

Ul,

We are at present paying Para workers 25¢, 27½ and 30¢ per hour. Your offer is to pay as follows:

For production of 200# daily, \$3.00 per day

- " " 250# " 3.50 " "
- " " 300# " 4.00 " "
 " " 400# " 5.00 " "

As advised you verbally, on suggestion of Mr. Mason we have added one step to the above, which you approved, as follows:

For production of 350# daily, \$4.50 per day.

This schedule was put into force beginning at 7 a.m. July 26th. The production of Parm. for the twenty-four hours ended 7.a.m. July 27th was 180%, and the production for twenty-four hours ending at 7 a.m. today was 188%, an increase of 26%. Our daily reports will show you product on of this in future, and we shall all be a gaid deal interested to watch those quantities.

R. W. Kerlow,) & Acting Managor.

HERMAN & HERMAN, INC. MANUFACTURERS AND JOBBERS OF CHEMICALS CH STREET, NEW YORK

Re: Para-Amidophenol

Thos. A. Edison Co., Inc., West Grange, H. J.

Intermediates, Colors and Chemicals for the Textile and Photographic trades and Chemical Manufacturers.

July

Gentlemen:

We beg to advise you that we are now ready to deliver PARA-AMIDOPHENOL HYDROCHLORIDE PURE for photographic purposes. This is equal to the imported article with which you are familiar.

Our price to the film trade on this product is \$12.00 per pound, f.o.b. New York, in 100 pound lots or more. We will, however, take sample orders of five pounds at this price.

> Hoping we may receive your order, we remain Yours very truly,

DTH: EB

Sulphur Black Sulphur Brown Hydrolene Grey Indigo Substitute Alizarine Black Alizarine Colors Direct Black Direct Colors Methylene Blue Acid Red Basic Green Azo Yellow Paraphenylenediamine Para-amidophenol **Butter Color** Dimethylaniline Diamidophenol Dinitrophenol

Dinitronaphthalene Dinitrobenzol Benzylacetate Benzaldehyde

Benzylic Alcohol Paranitraniline Aniline Oil Aniline Salt

Acetic Acid Beta Napthol

Alphanaphthylamine Toluidine

July 29th. 1916.

Choncy Brothers, Scath manchester, Conn. Contlemen:

attention of Mr. J.P. Chency.

the samples of Glycine dydrochloride and Clycine Ester were received and I gave them to our regular photographer, remuesting him to test the same. As used them exactly as Clycine is used, and made several special exposures which he tried to develop normally, clue for half an order, also for three-universe of an hour and also exposed a plate to daylight, but the Olycine had no offect whatever upon the completen. There was a sign in any case that the cultion had over some in contact with an developing execut.

If you should wish to have any further experiments made in this direction, I shall be glad to have any other samples tried for you.

Yours very truly,

[ATTACHMENT/ENCLOSURE]

9195) My See marrow Mr Edison Shotographically camples of BB. Shedre Hydrockloride and BB. Glycine Ester Hydrockioride given me by mr meadowcrash and find after making coveral tests that the developed hasn't any action whatever on the selver Emulsion as far as in visible. Ino plates duralo ped normally one half hour Times gularters of as a final test of Exposed a emall flate to day light, holding it in my hand for about two mountes Developed the frate for the cornetes withour any sign whatever than it had Ever coule in contact with developing agent Lewis Dueder ng should be of a light gray

My should be of a light gray

My color.

What Irreans was white CLASS OF SERVICE OESIREO

Feet Day Nessage

Day Leiter

Night Message

Night Leiter

Parene sheeld mark an X opposite the class of service desired with the class of the class

WESTERN UNION TELEGRAM

Check Time Filed

Send the following telegrem, subject to the serm

July 29th 1916.

C. W. Markus

OUR PARA AMIDO PHENOL PLANT IS BORXING AND WE HAVE
MADE TWO BATCHES INTENDED FOR YOU, BUT MR. EDISON WAS
NOT SATISFIED AND WOULD NOT LET THEM GO. EXPECT ANOTHER
BATCH OUT LATE TONIGHT. WILL NOT LOSE A MOMENT IN
SHIPPEMG.

W. H. MEADOWCROFT.

Sent Postal 7/-9/16-11-10am.

LOUIS LAZARD

DYESTUFFS - CHEMICALS

92 WILLIAM STREET NEW YORK

B.C.Code 5th Edition

EUX-CONDÉ, FRANCE

Med as True brosser

ir. Hendowereft,

c.o Er. Blos. A Edison

Owening, H.J.

De door Fr. Houdowerest;

I beg to confirm by letter of July 24th and I cummet tell. you how much it comeys my London office thit your name appeared on my packages sont abroad.

They ask me to give them all assurance in case some of our customers abroad refer to you, you will give the matter to us.

They have been spending a (rest deal, of time and north intro-

ducing your goods and they want, in the future, the benefit of it.

I do not doubt that we will agree on this natter and in

July 31st. 1916.

Mr. Edison:

We shall have to make some adjustment with Hollander on Paraphengienediamine and Aniline Salt. They use 600 pounds of Paraphenylenediamine a week and two or three barrels of Aniline Salt a day. Our business with them has run up into high figures.

For a few weeks past our Persphenylenedianine has been running the poor in quality. It has been soft an full of rud and had a very strong dor. Mr. Bellander said that they could not stand the fumes when they opened several cans that they could not stand they have never complained before they faid not like to complain now, but falt that they were obtained before they faid not like to complain now, but falt that they were considered they faid not like to complain now, but falt that they were obtained before they faid not like to complain of the far some 40,000 er for could be for the grant of the trouble, but state that it is very difficult to figure on getting the color when they have to re-dye, and beside, it is bad for the skins.

The Aniline Salthas also been poor, sometimes it has been dry and flakey as it should be, but at other times, it has been wet, and in smaller orystals.

Christensen knows about this, and want to look into the matter himself at their factory, and he is of the opinion that we should make some adjustment of the principle of the kind will arise in some adjustment of the property of the kind will arise in the trouble has been due to neglect to his instructions by the men that he has been able to get.

of Paraphenylenediamine that we ought to make good at least 500 pounds of Paraphenylenediamine that were not only an absolute lose to him, but caused him a further lose of re-dyseing the skines. He thinks he should also be entitled to an allowance of 2500 pounds of Antline Sail Vinow this is serious, but so is his loss if he is belling the truth, and it looks as though he were from what Christensen said after he returned from their plant.

They have never complained before, but they have been our best ous tenser for Paraphenylenediamine and Antline Salt, and they always pay their accounter regularly. We have their etanding order for 600 pounds of Paraphenylenediamine a week and three barrels of Salt per day. If you make an allowance I would suggest that we do not give it to them all at one time, but say bill them every other shipment until we have made up the adjustment.

Please give me your instructions.

MEADOWCROFT

Ik make the allowanes but and them to malify us unmaderately of anything A RADPOTCIA PRES.

W. H. AGGREGA, WAS MEET.

C. C. HUPPTCIA. PRES.

A KLIPSTEIN & COMPANY

rarbolic

ANILINES, DYE STUFFS, CHEMICAL
AND TANNING MATERIALS.
LIPETERS OF DEPARTMENTS.
LIPETERS OF STREETS.
AND TANNING MATERIALS.
LIPETERS OF STREETS.
NAIN 01995(S)

BOSTON. PROVIDED ST.
PHILADELPHIA. BOSSE SCHORES ST.
PROVIDENCE, IF NO. 57
CHICAGO, IF SO, THE ST.
CHARLOTTE, N.C. COMMERCIAS NO BAYE BUT

(q854)

EW YORK July lat, 1916.

The Edison Laboratory
Orange, N.J.

white thenot in glass white thenot in glass

Gent lemen:-

quenantes m

We have your favor of July 19th in reache the transfer of the CARBOLIC ACID.

If you can not offer Carbolic abid in such control to the tainers as our friends inquire for, kindly let us know the whit you can offer and 'e may be able to arrange (13) when the work to accept your shyle of packing. We should have be pleased to do business with you.

Yours very truly

Dt z-AH

A. KLIPSTER CO.

White the state of

w

BEHZIDINE PLANT

140 4

```
2895 4 - Caustio soda dissolving tanks (approx. 800 gale.) ?
          6'-0" x 4'-0" deep.
                Make at plant grid in top to lay 3 drums soda each.
   2897 1 - 1/2 ton chain hoist with 6" beam trolley ?
2899 2 - 20 ft. 6" I beams - with connecting fish plate.?
2879 1 - Pump to deliver caustic soda B.
   <u>B</u>
2662
          3 - Rednotion Pots B.P.C. -6483 with coils
          3 - Condenser coils - C-6482
   2877
                        tanks -4'-0" Dis. x 3-6" deep cyprose.
   2891
          3 - Stuffing Boxes - C-6470
   2883
          3 - Bearing Stands - B-6204
   2883
           6 - 2" - 4 bolt Bearings - A & F Brown !
   2883
          3 - 60" x 6" face eteel pulleys - 2" bore
   2883
           3 - Thrust Bearing collars
   2884
In Stook 3 - Sets Bevel Gears - in stock - 0-6209
           3 - Verticle 2-3/4" shafts with Paddle -C-6485 ?
   2889
           3 - 2" Shafte (Horizontal) 4'-6" long 1/2 x 1/4 Key way one end, ?
   . 2894
   2890 20 ft. -2-15/16" line chafting with hangers - Glen Ridge
                                         friction Clutch Pulleys ?
    288G
           3 - 18"
           1 - 25 H.P. Motor .
    2888
                Drive pulley for line shaft? Speed.
    2876
          2 - 8'-0" x 7'-0" high open tank steel 0-6481
           2 - 2" sharting complete as per B. P. -C-6485
   2889
           1 - pair shaft couplings (Stirring) ?
   2894
    2883
           2 - 60" pulleys /
           2 - 4 bolt -2" bearings
    2883
                18'-0" to 20'-0" - 2-15/16" line shafting with Hangers
    2890
           2 - 18" friction clutches !
   2886
           1 - 25 H.P. Motor
    2888
           1 - Pulley for line shaft.
    2879
           1 - Pump
  /2948 2 - 2" Ball Thrust bearing collars ?
2896 D 1 - 36" Filter Press')
   E 2885
           3 - Alochol pots 7'-0" dia. x 6'6" high with coils
           2 - Condensing coils
    2877
           3 - Stuffing Boxes - 0-6470 !
    2883
```

2 - Condensing Tanks 4'-0" x 3'-6" deep

2892

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. . .
      E (continued)

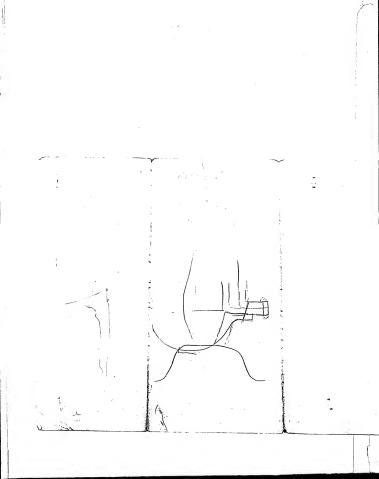
√2883 3 - Bearing Stands B-6204 ?
       ₹883
              6 - 2" - 4 bolt bearings A. & F. Brown 7
3 - 60" x 6" face Pressed Steel Pulleys 2" Bore ?
       V2883
                3 - 2-3/4" Ball Thrust Collars >
       /2884
    In Stock 3 - Sets Bevel Gears - 0-6209
/2889 3 - Verticle 2-3/4" shafts with Paddles C-6485 }
      √2894
               3 - 2" Horizontal Shafts ?
       2890
                24 ft. 2-15/16 line shafting with Hangers Glen Ridge
      2006 3 - 18" Friction Glutch Pulleys >
       2888
               1 - 25 H.P. Motor
                1 - Line Shaft Pulley?
      √ F Larger Condenser
                                  Tank.
               Pump 4 x 4 x 6 From F. to G.
              Filter Press 36" - on hand
    On hand
               1 Sight Bottle ?
                 Hose & header for confining hot alcohol.
       2879
              Pump to ceoler H. from G.
       H One or two Tubular onlers. ?
2895 J Two 36" to 42" centrifuges to be enclosed.
2895 K
              3 - 2000 gal. Storage Tanks /
              1 - 4 x 4 x 6 Pump.
        L 1 - 1000# Scale - Platform type. ?
      2892
             2 - Wooden Tanks 10'-0" dia. x 6'-0" deep oypress
      2894
              2 - Verticle Shafts 2" x 11'8" long C-6485
      2894
              1 - Pair 2" Standard Comp. Flanges (stirring)?
2 - 60" Pulleys x 6" face - 2" Bore ?
      2883
      2883
              4 - 4 bolt 2" bearings (
20 ft. -2-15/16" line shafting with Hangers.
      2890
2099
              2 - 18" Friction Clutches ?
1 - 25 H.P. Motor
      2888
              1 - Pulley for line shaft.
```

<u>H</u> (continued)

2879 l Pump 4 x 4 x 6

2998 2 - 2" Ball Thrust Collars.

2896 N 1 Wood Filter Press ? .



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